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The Glencoe Loose-Leaf Note Book Cover

FILLERS

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DESCRIPTION

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Names of Clouds

Those clouds are called "cirrus" that look something like flocks of curly wool, sometimes like drawn-out filaments of dazzling whiteness, sharply contrasting with the deep blue of the clouds. They are often fifteen thousand to twenty thousand feet high. When cirrus clouds are small and rounded and closely grouped in large numbers, so as to look like the backs of a flock of sheep, the sky thus covered is said to be dep-

pled. It is usually a sign that weather is going to change.

The name "cumulus" is given those large white clouds with round outlines which pile up during the heat of summer, like immense mountains of cotton wool. Their appearance presages a storm.

"Stratus" is applied to clouds disposed in irregular bands placed in tiers on the horizon at sunrise or sunset. They are clouds that in the fading daylight, especially in autumn make the glowing tints of melted metals and of flame. The red stratus of the morning are followed by rain or wind.

Finally, we give the name "nimbus" to a mass of dark clarks of uniform gray, so crowded together that it is impossible to distinguish one cloud from another. These clouds generally dissolve into rain. Seen from a distance they often look like broad stripes extending in a straight line from heaven to earth. They are trails of rain.—"The Storybook of Science" by J. H. Fabre.

Dec-25-17 Went out to spend
Xmas with Mr. & Mrs. Saunders
at Hillsdale near El Cajon. In late
afternoon I walked out on hill
back of their ranch in hopes
of getting some quail.

Saw large bunch but darkness
over took me before getting many
2 quail & 1 rabbit was the to

Dec. 26 -

Aunt M. & I went
hunting in morning got the limit of
of quail and 2 Paliptila californica
& 1 nice Toxostoma rubicundum

Left Mrs. Saunders about 3.30 in
the afternoon and as we were
going thru Jamacha I noticed
a large Hawk perched on top of
a telegraph pole near the road.

I stopped the Ford put my
gun together and shot the bird
which had flown to a nearby
Sycamore tree, on picking it up
was surprised to find a nice
Archibuteo ferrugineus.

Dec 30-17

Back out to spend the
night & off for a hunt the next a.m.

Dec - 31 - 17

Dick, Aunt M. & myself off to Hillsdale hunting - many Tyrannus cassini were seen enroute.

Was rather disappointed on finding my pet bunch had been disturbed yesterday but I managed to show Dick a nice bunch & he got his limit (15) while I picked up (12).

I had long told him of San Diego County's fine quail shooting & wanted to make my promises good.

I saw several Thryomanes, a small flock of Passerculus s. alaudinus, and a single Pooecetes g. confinis was shot.

A "Jack snipe" Gallinago delicata flushed in front of Dick from a near by creek.

Aunt M. went out collecting with her little gun getting another nice Palaephila californica, 1 Sayornis sayus and a Salpinctes o. absoletus. The latter was conspicuously perched on a fence post near Sam's house.

Jan-3-18 left San Diego about 2 p.m.
and made camp for night on
desert side at Warner Pass where
Mr. Frank Stipton & I set a line
of traps. A Bubo v. pacificus flushed
from a tiliophan pole between Santa
Ysabel & Warner's Valley just after
sunset.

Jan 4-18 My traps held 1 Perithous
dentomys & 1 Peromyscus m. sonoriensis.
Several mourning Doves were seen
feeding in nearby fields - Birds seen
were Anthony Towhee - several - Lots of quail
valisala - Palaetola plumbea several - bands of
 Gambel sparrows - a Cooper Hawk flew over
just at dawn -

As we were passing through the
northeastern part of San Felipe Valley
I noticed a large black Buteo rush
at a band of quail feeding in an
open flat - It failed to catch a
breakfast & alighted on a nearby
mesquite where Mr. Stipton took
a shot at it but missed -
from here it alighted on a nearby
bush & he took 2 more shots
but failed - The Hawk then
lit on a juniper some 500 yards

away when I slipped up & gave it a charge of heavy shot.

On picking it up I was surprised to find a fine black Swainsoni??

Farther down the valley near the eastern extremity we stopped at a windmill to take on water - This mill is about $\frac{1}{4}$ mile east of The San Felipe Ranch's east gate - several *Amphispiza b. deserticola* & *A. n. nevadensis* were noticed but Aunt May collected 2 of the former & 1 of the latter -

Sage Thrashers were noticed all thro the valley as were bands of Gambel's sparrows several Sage Sparrows were seen & some Juncos - I noticed 1 vesper sparrow but was unable to collect -

We travelled in a general eastern direction until reaching the aforementioned windmill from which we turned south thro a gradually narrowing valley where 4 desert Jack rabbits were seen.

After passing over a low range of hills into a valley called Blair Valley we came into a very narrow rocky box canyon running from east to west. in some places this canyon is just wide enough to allow the

machine to pass - is very sandy & rocky as it is the creek bed & ends off with a steep little hill of 15% grade very rough & rocky fortunately we were going down hill

This canyon opens out into La Puerta Valley which is well named as it is indeed the gateway.

(Spanish translated) But in my mind should be called La Puerta Diablo as I thought rather harsh of that 2 miles of road -

La Puerta Valley is one of the typical desert valleys with a gradual rising floor covered with mesquite & creosote surrounded with barren (with the exception of acitillas & cacti) rocky, sunbleached hills.

We arrived at Mr. Stephens homestead about 11 a.m.

After a hasty lunch he & I put out in search of *Thomomys n. guatemalensis* after searching over several fields with unsuccessful results we journeyed to the out let of the valley where a rather nice stream of brackish water rises to the surface.

This stream runs in an easterly

While searching for gopher signs in
lower end of valley I saw several
Phainopepla - a small flock of Western
Bluebirds, 7 juncos, several Plumbeous
Gnatcatchers, heard a Vireo & saw
small flock of Valley quail -

On returning near Mr. Stephens cabin
I shot a Calif. Thrasher also
saw a Say's Pewee

direction and finally after many rises & falls through rocks & sandy desert, reaches its outlet; salt sea.

In many places it is driven to the surface by bed rock which as soon as it has run over sinks again, These are the Oases of the Colorado desert, the boon of the early explorer.

In the years winter of 1915-16 the terrific rain storms that swept So. Calif. left their tracks. Tracks that will probably never be covered up, for while very little rain fell in La Puente Valley enough fell on the Westward Mts to send swirling tearing torrents through these small streams ^{beds} of the desert valleys leaving in their wake huge barankas some 25 feet deep by 100 yards wide, in such as this flows the tiny stream along whose banks we searched for gopher signs.

We were fortunate in finding 4 burrows that were fresh & in each we set a trap.

Getting back I hastily prepared to get to work and after an hour

we again set off to the south side of the valley some $1\frac{1}{2}$ miles distance when in a neighbors yard we set several gopher traps & $\frac{1}{2}$ mile east we set our line of mouse traps on a rocky hillside which was sparsely covered with scrubby bushes & several species of cacti in hopes of catching ^{*Perognathus*} ~~Perognathus~~ ^{formosus}.

In the creosote on the floor of the valley I saw what I believed to be sign of *Perognathus p. harrisi* & set several traps there.

Sat up late setting up skins -

San Felipe Valley	<i>Buteo swainsoni</i>	♂	535
	<i>Lophortyx c. californicus</i>	♂	273
	<i>Amphispiza</i> <i>be. deserticola</i>	♂	—
	" " "	♀	140
	<i>Amphispiza</i> <i>n. nevadensis</i>	♂	160
Warner Pass	1 <i>Peromyscus m. sonoriensis</i>	♂	
	2 <i>Reithrodontomys m. longicauda</i>	♀	
La Puente	<i>Toxostoma redivivum</i>	♀	292

Mr. Stephens set several traps in his cabin & a short line near his house on edge of field.

Jan 5 - 18

Up & had traps in before sunrise - my traps held 7 *Dipodomys m. similis* - 4 *Peromyscus eremicus* &

1 *Peromyscus m. gambeli* - part of these had broken skulls & were not saved -

The small bunch of traps set in the creosote held nothing tho 2 were sprung probably by *Dipodomys* which abound in this locality.

The gopher traps set at the neighbors alfalfa patch held 1 gopher.

Mr. Stephens traps held 9 *Peromyscus eremicus* - his traps in the cabin held 1 *Neotoma i. intermedia* & those set near the field held 2 *Dipodomys m. similis*.

Several desert jacks ^(Lepus) were seen enroute to the trap line.

Not having enough good stuff to warrant our staying longer we packed up & left about 10 o'clock -

Meanwhile Mr. Stephens went down to the creek where we set gopher traps - and I was to meet him with the machine nearby - our traps held 2 gophers.

On leaving La Puerta Valley we encountered a most rugged steep hill of about 20% fortunately it was down hill for us & the brakes held well.

Once on the valley (vallecito) floor we had clear sailing until we reached

Several *Phainopepla*s were seen about
Vallejo, 1 Mockingbird & a stray
Hummingbird was perched on top of a
large Mesquite probably an Anna
but did not get close enough for
perfect identification. Many sage
sparrows were also in nearby brush.

And a large bunch of Valley Quail

The old overland stage station of Vallecito now nothing but an old adobe ruin - Good water abounds here & a large tule patch of about 2 acres which would make a great bird collecting place in migration -

From Vallecito on we were confined to the open sand bottom of a desert wash getting onto the mesa occasionally for a short distance - This surely was a real test for the Ford - and the thing behaved beyond belief as it only boiled twice and then cooled off immediately - only 1 pint of water consumed in the 20 miles of grind.

About 2 miles before we reached Vallecito a LeConte's thrasher was seen - both Mr. S. & myself pursued but the bird but it out-witted us & made away unhurt.

After leaving the old stage station a pair of Golden Eagles were seen 1 of which rose from the ground nearby where it was probably feeding on a newly killed prey.

About 4 miles west Carizo Creek a fine Prairie Falcon was seen rise from the bank of the wash down which we were driving - It flew up stream & came by close enough for me to

clut it hard with no. 10^s causing it to drop its prey which proved to be a Lanius l. excubitorides.

We arrived Canizo Creek about 12.30 with a boiling sun & poor camping prospects.

We soon found an old partly deserted tent house & brush ramatho where we made a very comfortable camp - with quite a stream of water running near by.

A large grove of big mesquite is growing right across the wash & several phainopeplas are chirping & quarreling over Mistletoe berries in a nearby mesquite. Saw several Sage Sparrows in nearby brush.

Mr. Stephens went out in search of Gopher sign (Thomomys albatrus) & set 12 traps - he saw a Jack snipe & a mocking bird besides many migrants. A loose herd of hogs promised to make trouble with his gopher traps.

He later set 2 traps in Mesquite covered Sand Dunes east of camp, in hopes of getting Neotoma i. venusta which are topotypes - also found small colony of Pipodromys deserti.

where 5 traps were set.

I skinned all afternoon and until late in the evening.

Aunt May shot a *Phainopepla* & Sage Thrasher from nearby Mesquite.

La Puente Valley	3	<i>Thomomys</i>	♂	195 - 65 - 26 - 4	Total 11/25
	4	"	♀	210 - 63 - 26 - 5	
	5	"	♀	175 - 50 - 22 - 4	
	6	<i>Dipodomys m. similis</i>	♀	245 - 155 - 38 - 12	
	7	" " "	♂	250 - 150 - 38 - 10	
	8	" " "	♀	240 - 142 - 36 - 10	
	9	<i>Peromyscus m. sonoriensis</i>	♂	155 - 75 - 20 - 14	
	10	<i>Peromyscus e. eremicus</i>	♂	190 - 105 - 19 - 15	
	11	" " "	♂	197 - 105 - 20 - 15	
	12	" " "	♀	198 - 110 - 20 - 15	
	13	" " "	♀	195 - 110 - 20 - 15	
	14	" " "	♂	200 - 110 - 20 - 16	
	15	" " "	♂	190 - 103 - 20 - 16	
	16	<i>Neotoma i. intermedia</i>	♂	320 - 140 - 35 - 25	
		<i>Phainopepla nitens</i>	♂ im	190	
		<i>Oreoscoptes montanus</i>	♀	—	

Jan - 6 - 1918

Mr. Stephens picked up gopher traps which held 3 gophers - his *Neotoma* traps were untouched as were the *Dipodomys deserti*. he saw 3 Jack Snipe in creek but were too wild for shot.

He left about 9⁰⁰ for long hike in hills

Toward the south which I stayed at camp
to skin & reset the gopher traps.

Aunt M. & I went hunting about noon
birds rather scarce got several *Phainopepla*
& *Gnatcatchers* (plumbea) & Sage Sparrows from
flock of about 30. Very wild - & Sage Thrashers
Ruby crowned Kinglet - 1 more seen.

While setting gopher traps along the moist
creek bed an *Epidonax* was seen & collected.
many Piglets were also watering in creek about
noon -

Saw a fine adult Red-Tailed hawk
circling over mesquit quite high but
plainly seen.

Numbers of *Dipodomys* colonies were
found east of camp among the mesquit
covered sand dunes - many coyote & kit fox
tracks were plainly seen in sand probably
hunting for *Dipodomys*.

A flock of 40 birds were seen
watering in

I found numerous *Neotoma* houses
in clumps of thick mesquit near
the roots - and in evening set 3
traps - gopher traps held 1 gopher

Mr. Stephens got in just at dusk
after very hard walk.

After leaving the brushy desert

floor & going into the hills he saw
 but 7 living things viz- 2 lizards
 2 butterflies - 1 grasshopper & 2 Rock
 Wrens - and these excepting the lizards
 were probably only strays away from the
 damper valley associations.

On the higher ridges he found
 a well beaten Mountain sheep trail but
 no signs of large rams.

Set line of mouse traps in
 brush back of camp (north) & 4
 traps for *Dipodomys deserti* -

17-	<i>Thomomys albatum</i>	♂	230-75-32-5
18	" "	♀	215-62-30-5
19	" "	♀	190-61-28-4

Empidonax ? 140

Poliopstila plumbea ♂ 110

" " ♂ 115

Amphispiza n. ♀ 150

" " ♀ 145

Oreoscoptes montanus ♂ 225

" " ♀ 218

Phainopepla nitens ♂ 200

" " ♂ 200

" " ♂ 205

" " ♀ 198

Regulus c. calendula ♂ 110

Heard a Horned owl "hooting" in
sight and it was answered by another
still farther away.

While setting the steel trap near the
creek 3 Killdeer were seen - They
probably strayed in as they were not seen
before & would certainly not have been
over looked.

Jan 7 - 1918 - My rat traps held 2 *Neotoma i. venusta* (Topotypes) - The 4 traps set in the deserti runways had the bait eaten & 1 nice deserti - by the hind leg & had perfect skull.

The line of mouse traps held 8 *Dipodomys m. similis* - part of which were not saved. My gopher traps were untouched so brought them in & Mr. Stephens reset them - & flushed a duck from small pond.

Mr. Stephens out about noon to look at gopher traps - 3 specimens were taken & the traps reset.

In late afternoon Aunt M. & I went out east of camp & set 9 *Neotoma* traps. Two steel sets were made 1 in the river bed under over hanging Mesquit & the other at the junction of 3 trails near point of hill -

A line of mouse traps were set & 1 trap (Schilyer) was set at entrance of deserti hole -

Mr. S. made steel set & reset his gopher traps which held 3 more gophers.

About 10 o'clock in the evening I looked at the trap set at

deserti burrow - The bait had been eaten but trap unsprung - so stuck piece of dry bread on trigger - Just before going to bed I again looked at it and found a dipodomys m. similis in its paws - I reset the trap at another burrow.

20	<i>Dipodomys d. deserti</i>	♂	358-215-55-13
21	<i>Neotoma i. venusta</i>	♀	350-165-36-27 ^{Topo.}
22	" " "	♂	375-170-37-27 ^{Topo.}
23	<i>Dipodomys m. similis</i>	♂	240-145-38-10
24	" " "	♀	250-153-37-10
25	" " "	♀	225-126-35-10
26	" " "	♀	250-155-38-10
27	" " "	♂	245-142-37-10
28	<i>Thomomys albatrus</i>	♀	228-80-32-5
29	" "	♀	220-75-30-5 ^{4 small front}
30	" "	♀	215-75-30-5
31	" "	♀	220-75-31-5
	<i>Falco s. sparverius</i>	♂	265
32	<i>Dipodomys m. similis</i>	♂	245-148-38-10
	<i>Peromyscus p. leucopus</i>	♂	270

Jan - 8 - 1918

My rat traps held 2 fine *Neotomas* & two more traps were sprung. The mouse traps held single *Dipodomys m. similis* & the trap at the deserti was untouched.

Mr. Stephens brought in 2 gophers

and his steel trap held a perognathus
penicillatus which was not saved.

Went bird hunting with Aunt M.
after breakfast, I found a bunch of
sage Sparrows & together we got 4.

Aunt M. ran into a small bunch
of Verdins getting 2 & 2 gnatcatchers (Phoebe)
I collected 2 Wilson snipe for M.
Stypters & saw 1 more -

A large flock of Pipits were seen in
stream bed watering - and a lone Flicker
was seen flying through the Mesquite.

Numbers of Gambel Sparrows were seen
feeding on the ground under the Salt bushes
& a Ruby crowned Kinglet was busy catching
bugs on the upper limbs of a nearby
Mesquite. Saw an Audubon Warbler
while after water this a. m. also an ^{hummingbird} ~~unidentified~~

Found large Neotoma colony in bank
near Camp.

Mr. Stypters reset the gopher traps again.

I skinned until late in afternoon
when I put forth - setting line of
mouse traps in sandy river bed which
is covered with brush - set 2 traps in
Neotoma colony found this a. m. &
7 rat traps in desert colony

Mr. S. reset his gopher traps

which held 2 more gophers & put out a line of mouse traps. Through a charred kafir corn field & on into the mesquit.

As I was enroute to set my traps I saw about a dozen meadow larks. This same bunch stays about here on salt grass flats & has been seen several times - a pair of Say Phoebe & a single black Phoebe were seen today & had been seen before perched on horizontal mesquit limbs near the water.

33	<i>Dipodomys m. similis</i>	♂	260-155-37-10
34	<i>Neotoma i. venusta</i>	♀	350-145-37-30
35	" " "	♂	375-175-37-27
36	<i>Thomomys albatrus</i>	♂	218-78-32-5
37	" "	♀	213-75-30-5
	<i>Empidonax</i>	♀	142
	<i>Phainopepla nitens</i>	♀	200
	<i>Amispurus f. flaviceps</i>	♂	105
	" " "	♂	107
	" " "	♀	105
	<i>Amphispiza n</i>	♀	160
	" "	♀	145
	" "	♀	150
	" "	♂	150
	<i>Poliophtila plumbea</i>	♂	105

Jan 9. while picking up my
traps I saw a pair of ravens
flying along the creek.

Poliophtila plumbea

♂

110

"

"

♀

110

about 11 o'clock after finishing my skins I went out & took a look at my deserti traps - 1 trap held nice specimen with skull crushed -

When we first arrived at Carrizo Creek I found the remains of a Poorwill a Swainson Hawk (wings hung on wall) & various parts of a Horned owl that had been chewed by some animal in nearby clump of mesquite.

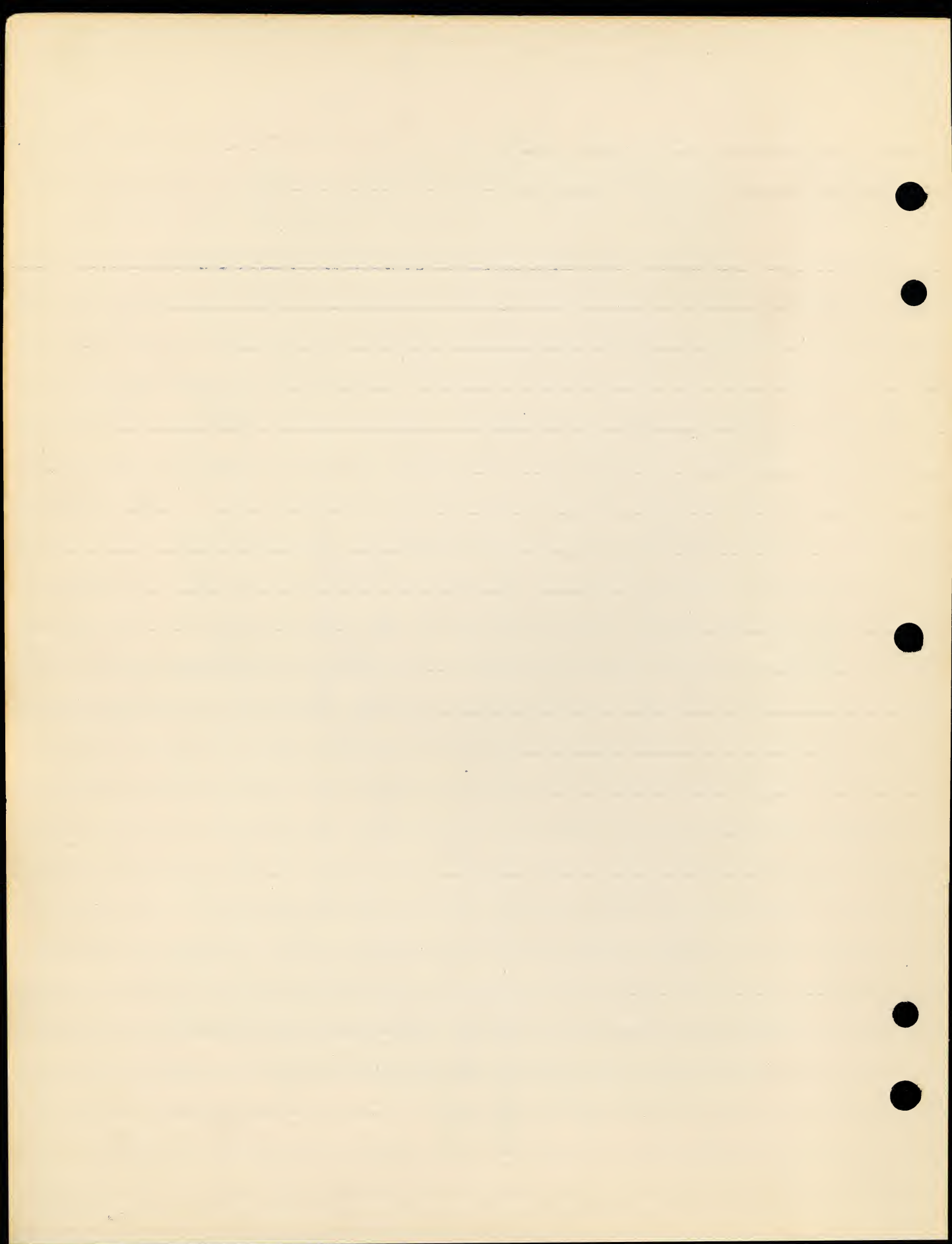
Hard wind began to blow about mid-night -

Jan 9 - wind abated toward morning but had ruined most of my deserti sets by blowing sand under the triggers - in spite of it I had 1 more nice deserti with good skull.

My line of mouse traps held 5 *Dipodomys similis* and 2 *Peromyscus m. sonoriensis* & The rat traps set in the ^{nest house} colony living in the river bank held 1 *Neotoma* i. ??? probably *deserti*

We got started for Mountain Springs about 9.40.

We again took down the wash but the sand was not as heavy as



it was farther to the west.

Several isolated graves were seen covered with rocks & unmarked, early travelers of this dry, bleak, region that succumbed to its desolation.

After we had turned out of the wash and were traveling on the edge of the clay hill region the road suddenly turned up a small draw & over the crest of the hills.

I started up but the Ford failed me - twice I backed down & attempted to re-climb - finally discovering the failure was due to lack of gasoline in the carburetor altho I had about 6 gallons in the tank -

Aunt M. was called in to action with a forced draft into the gasoline tank - This is a very disagreeable but difficult task and was finally successful tho the fumes of the gasoline she inhaled made her chatly sick.

We arrived in Dixeland about 11.30 Took on supplies & started west toward Coyote Wells

Saw the only road runner on desert
near Coyote mills altho their peculiar
four Toed foot prints were seen
at every camp.

The wind had again started up
~~but~~ was unnoted while traveling east.
but upon turning against it progress
was difficult - as it was dead ahead
& blowing at about 35 miles per hour.

The Ford with open windows would only
do about 12 miles an hour.

Fortunately the storm was still
young & no sand had been stirred
up -

We stopped at Ayoh Wells for
lunch and to see if the wind
would blow its self out - This it
did not do so we put out in
spite of the fact.

About $\frac{1}{2}$ mile west of The Wells
about 2 dozen horned larks were
seen hovering behind clods & small
bushes for protection from the wind.

Ant M. & I got out after them
& soon had 10.

From here we proceeded to Mountain
Springs where we took on water
& went to the top of the grade
where we located camp for the
night & set traps.

Traps were set over steep rocky
side hills covered with juniper & scrub oak.

slightly more

cacti & other shrubby bushes.

Numerous Neotoma nests were seen amongst the large boulders.

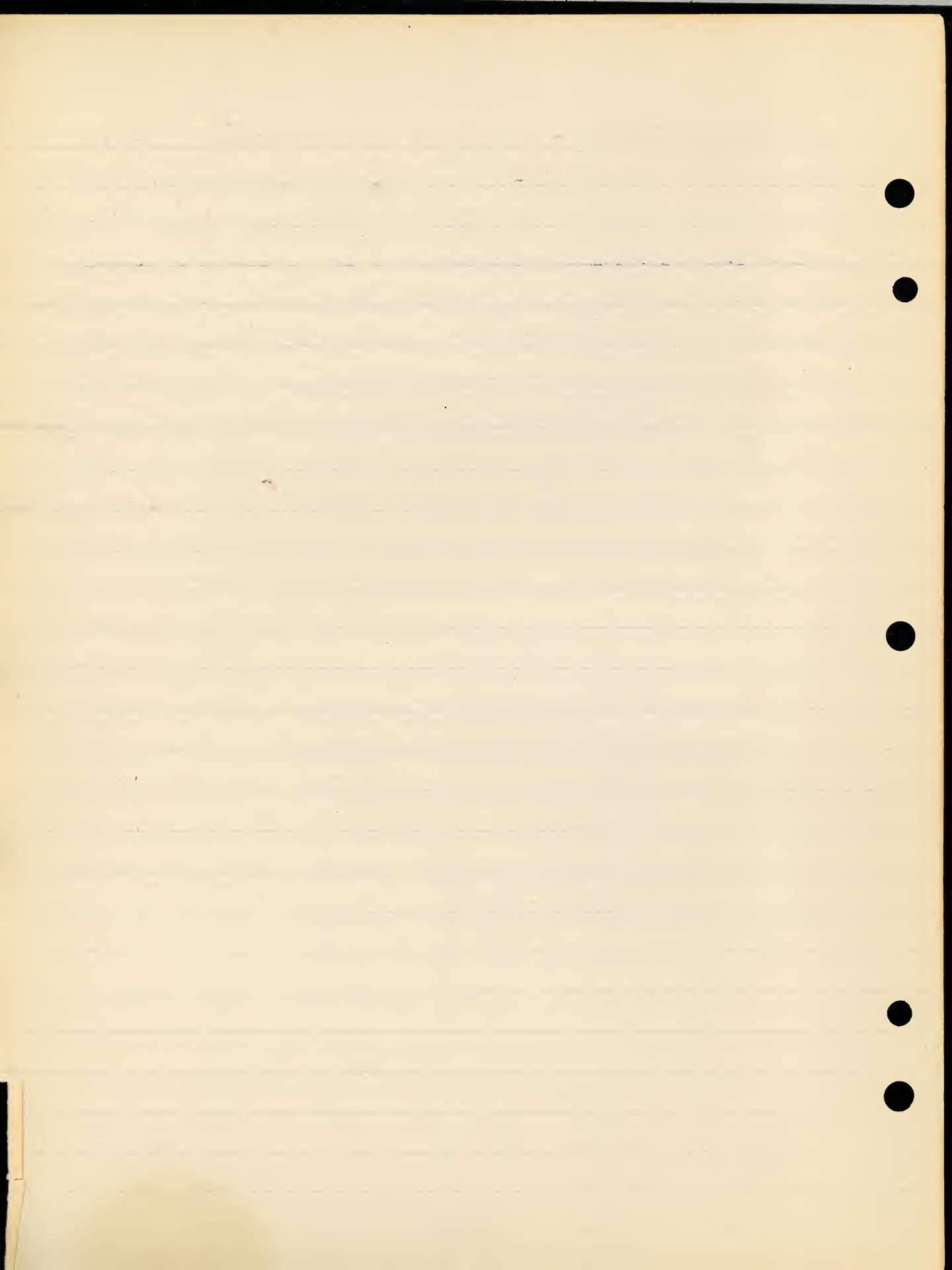
38	<u>Dipodomys d. deserti</u>	♂	362-220-57-15
39	<u>Neotoma i.</u>	♂	290-135-28-22
40	<u>Perognathus</u>	♀	176-103-24-6
41	<u>Dipodomys m. sinuatus</u>	♀	253-151-59-12
42	<u>Peromyscus m. sonoriensis</u>	♂	153-75-20-13
43	" " "	♂	155-72-20-15

	<u>Otocoris a. ammophila</u>	♀	160	} Coyote Wells.
	" " <u>leucosiphila</u>	♂	175	
	" " <u>leucolaema</u>	♂	175	
	" " <u>leucosiphila</u>	♀	165	
	" " <u>leucolaema</u>	♀	175	
	" " "	♀	170	
	" " <u>ammophila</u>	♀	165	
	" " "	♀	165	
	" " "	♀	160	

Was somewhat surprised to see such old friends as Anthony Towhee & Bush-tit in this arid place but this is the extreme edge of their range I suppose.

Heard a Bubo hooting in the cold early hours of morning.

Several slight bursts of sprinkling rain kept us uneasy during the early part of the night as the strong wind had blown up a cloudy sky



Tho all was clear by morning. The
 wind was still steady & very cold as
 we hovered over a smoky fire until
 the good sun got in its pleasant rays.
 Jan-10 My traps held a toposyne perognathus
 1 juv. Neotoma & several peromyscus - ~~sonori~~
boylii - Mr. Stephens caught 1 gopher,
 1 Dipodomys m. pauus? & several peromyscus
boylii.

These specimens like the ones caught yesterday
 Mr. S. preserved with formalyne and will
 be prepared when arriving home.

As we were driving through Jacumba
 a small flock of Horned larks were
 seen & 6 collected. it was here
 that the most fortunate bird collecting
 of the trip was done as a very small
 flock of red-wings were seen & 4 collected
 These are the first toposynes ever
 taken of this species.

Took 2 shots at 3 different
 Red-Tails perched on trees at
 various points but failed to kill.

44	<u>Perognathus</u> f. <u>pallidus</u>	♂	190-112-23-6	Toposyne
45	P " "	♀	198-110-25-6	"
46	<u>Thomomys</u>	♀	180-57-25-5	
47	<u>Peromyscus</u> <u>boylii</u>	♂	198-106-23-16	
48	" "	♀	205-110-21-15	
49	<u>Neotoma</u>	♂	308-145-33-25	

Otocoris	a. atia	♀	170
"	" leucolaema	♀	160
"	" "	♂	175
"	" amnopleura	♀	170
"	" "	♀	165
"	" "	♀	170
Agelaius	p. neutralis	♂	
"	" "	♂	
"	" "	♂	
"	" "	♂	

Arrived home about 4 o'clock
in afternoon.

Jan-13-18 a Dusky Warbler was
heard chirping in yard this a.m. &
was collected

Urenivora c. sordida ♂ - 125

Jan-15-18

Set line of traps out
near the gravel pits This evening

Jan-16-18

Traps held 3 peromyscus &
fratimulus shot several birds &
saw a Red breasted Sapsucker which
through mishaps etc. we failed to
collect-

50 Peromyscus e. fratimulus ♂ 185-104-20-15

Chamaea f. hushawi ♂ 165

" " " ♂ 160

<i>Amphispiza belli</i>	♂	150
" "	♂	155
" "	♂	145
<i>Dendroica a. auduboni</i>	♀	135
<i>Toxostoma r. pasadenense</i>	♀	300
<i>Mimus f. leucopterus</i>	♀	270

Dec- 22 - 1919

Left San Diego about 2 pm bound for San Bernardino via Inland Route.

Just after crossing the San Pasqual River I noticed a large hawk perched in the top of a leafless sycamore, slipping up I shot it & identity proved to be an immature Western Red-Tailed Hawk.

A keen watch was kept by Aunt Mary & myself & was rewarded again when about 1 mile south of Vista when a large bird was seen perched in the top of a large Eucalyptus tree by the roadside, a charge of 4^s brought me a fine adult ♂ Golden Eagle which I was very glad to get.

After packing my eagle we were soon in the San Luis Rey Valley & spotted another Red-Tail in a leafless cottonwood, several charges of shot failed to kill this bird & it was last seen fleeing to safety over the hills.

Another Red-Tail was seen perched in the middle of a Sycamore up the canyon, 1 mile north of the S. L. R. River, & a fortunate shot killed it. In the dying gasps the birds foot clutched a branch & it took 5 more shots to dislodge it.

About 1/2 mile from Fallbrook I shot 4 times at a Red Tail but didn't kill

Several Western bluebirds were quarrelling
over the Rustletree berries in an over-
grown willow tree.

Darwin here overtook us & after lighting
up saw no more birds,
We arrived in S.B. about 7.30.

Dec. 24-1919

I went out about noon to gather up a few
birds, near by & chose the river bottom just
south of San Bernardino as a likely place
for good collecting.

The pastures about were almost submerged
in water, and tule patches were everywhere
with a few groves of cotton wood & willows.

← Song Sparrows were by far the most
common bird with several flocks of
Red wing-black birds (*P. neutralis*) To record
the list. Other birds noticed were
4 Jacksnipe. Many R.S. Flickers, willow Goldfinch
, greenback goldfinch (this is type locality for them & this
specimen collected), Redbellied Hawk, Great blue
Heron, several Black Phoebe, 1 parkman Wren
Gambel Sparrows, Calif. Shrikes, small flock
of Crows, ~~Sharp-shinned~~ Sharp-shinned Hawk, 1 Cooper Hawk
Bush-tits, Ruby-crowned Kinglet & Audubon Warblers

after collecting a few birds I turned
towards The Magnamas where we were staying

Dec. 26-1919

Went over near Riverside to collect
Black-Tailed Gnatcatchers as this is their type
locality

While hunting gnatcatchers I noticed several
Bell sparrows, a Roadrunner & a rock
wren.

I was successful in finding them abundant in the hills about 1 mile east of the town.

These diminutive birds seem to live thru out the year in pairs & were found most commonly in the blue sage brush where their "cheering" attracted attention my attention.

Returning to San Bernardino I passed a dried up sun flower Thicket & collected 3 more Green backed Goldfinches a violent wind storm sprang up early this morning & made collecting difficult.

Jan - 1 - 1920.

Was given the day as a holiday & instead of watching the Parade in Pasadena, I took my collecting tools & went up Arroyo Seco, spending the afternoon near La Cañada.

The Arroyo at this point seemed upper Sonoran by zone the birds were not common I succeeded in putting up 9 skins.

A barn Owl was flushed from a small live oak on the hillside & numbers of migrant birds noted on.

Golden crowned Sparrows Gambel Sparrows
Red shafted flickers, Spotted Towhee and Hermit
Thrushes Ruby crowned Kinglets

a few residents viz. Pallid-Wrentits, San Diego Wrens, several Pasadena Thrashers, many Calif Jays and at dusk a fair sized covey of quail was heard calling nearby

5-14-20

My traps were set near Udell's last night in Chaparral mostly sage but, some Chenise which was overgrowing large fields of surface rocks - I caught a number of mammals amongst which were the following of w that D.R.D has plenty & I am taking the privilege of preserving on my own time in the evening

50	Perognathus c. dispar Peromyscus c. californicus	♂	210-115-25-10	alt. 1250
51	Peromyscus c. californicus	♂	240-130-25-21	"
52	do.	♀	245-135-25-20	"
53	"	♀	217-116-24-18	"

5-15-20

Last night I set my traps about 3 miles west of Ojai where considerable Dipodomys signs had been seen - I was unusually fortunate & caught 8 pocket Rats - amongst the catch was the following

This species D.R.D.
was later taken 54

Peromyscus c. californicus ♂ 240-142-25-22 alt 600

5-20-20

Traps were set last night near Udell's & the following were extras. I also had some peromyscus l. sonoyei & p. e. frontatus with a pocket Rat thrown in.

5-20- cont

55-	<i>Peromyscus c. californicus</i>	♀	250-140-27-21	alt. 1250
56	do	♂ ^{im}	222-118-26-20	"
57	do.	♂ ^{juv}	197-105-25-18	"

June 2nd to June 5th 1920

While the Ford was being overhauled again I spent the interim trapping mammals near the mouth of Devil's Cañon which is about 5 miles air line N.W. of San Bernardino. The country was of the semi-desert type, tho a large area was covered with Artemisia. The soil in places was sandy but ran to large streaks of small rocks due to the wash of the stream which had changed its course many times.

Camp was established, with out pitching a tent, by cutting a niche into a California Walnut (*Juglans californica*) tho in the middle of the day the heat was almost unbearable. The altitude of camp was 1650 ft.

A pleasant stream rising from Devil's Cañon, on the north, passed within a few rods of camp and its presence gave compensation for the overheating heat, by my daily noon tide ablutions.

On the evening of the 4th Mr. & Mrs. M. E. Ginnes with A. M. and their family brought out a picnic

cont

June 2nd to June 5th 1920
supper of chicken, cake, etc and we all were had
a great time.

On the ^{night of the} 4th I set my traps 1 mile
south of camp in the valley floor - This
proved to be the best trapping of all as I
caught 21 *D. a. agilis* 3 *D. m. parvus* & 1 *Onychomys*
The most unusual thing of the night's catch was
that not a single *Peromyscus* of any species
was caught.

Through the kindness of Mr. McGinnis I had
my outfit hauled out and back.

Mammals put up for myself at this locality:-

5 m. N. N. W. San Bernardino, Calif, Alt. 1650 - June 4 1920

58 *Peromyscus m. gambeli* ♀ 168-71-20-15

59 *Dipodomys a. agilis* ♀ 305-187-45-14

60 " ♂ 303-185-43-14

6 + 4 m. N. N. W. San Bernardino, Calif Alt. 1500 - June 5 - 1920

61 *Dipodomys a. agilis* ♀ juv. 215-122-40-11

62 " ♀ 303-180-44-14

63 " ♂ 280-170-41-13

64 " ♂ 300-180-44-14

June 6th 1920

A.M. & I left in the San Bernardino in
the Ford about 10 a.m. bound for Bluff Lake
in the San Bernardino Mts.

Our route was via Mill Creek, through the

June 6th 1920 ~~can~~

central and up The Clark Grade.

Bluff Lake was reached about 4.30 and camp established under some large Western Yellow Pines (*Pinus ponderosa*) ~~with~~ a few White Firs (*Abies concolor*) scattered through.

Bluff Lake is a small series of ponds (2 or 3 according to rainfall) laying in a meadow that runs from ~~west~~^{east} to ~~east~~^{west} where the ponds are fed by small springs from the hill sides.

This meadow is about a mile in length and partly over grown with hellebore, the remainder having a growth of short meadow growth grass.

In this grass gopher sign was noted & many of their ridges were seen when they had been working under the snow. I trapped for them & found they were active mostly in the day time as traps set over night were untouched.

The Forest ran down to the clump meadow edge, and in some places trees (Lodgepole pines) were growing in the moist, watery ^{ground} places. The Western Yellow Pine made ^{up} the greater part, ~~and~~ ^{with} a general sprinkling of white fir and bordering the meadow in the wettest places chiefly on the western end, Lodgepole pines were noted.

A low chapparral of Buckthorn and Manzanita was scattered through the forest and in places where there were no trees, as hellebores, were almost

entirely covered, tho not as dense as the sierra and you were always able to find a clear way through.

In this chaparral Fox Sparrows (*Passerella i. stephensi*) Green-tailed Towhees (*Oreospiza chlorura*) and Wright Flycatcher (*Empidonax wrighti*) were breeding. Tho at this date we were late for the Passerella spp.

Through the Forest, especially that bordering the meadows was the favorite habitat of Audubon Warblers (*Dendroica s. auduboni*) Western Robins (*Planesticus m. proximus*) and a few other birds.

While the dead trees on the hillsides made homes for White-headed Woodpeckers () and Williamson Sapsuckers (*Sphyrapicus thyroideus*).

The most unusual thing of all was the sites chosen here by the juncos, The high dry hillsides being their favorites, but one was found with young on a table in the middle of the room of a deserted cabin and another was found with young snugly placed in a tomato can which was lying on its side.

Among the animals about the place, San Bernardino Golden-mantled Chipmunk (*Callospermophilus c. leucurus*) were by far the most abundant, living about the old buildings and rocks. San Bernardino Chipmunk (*Eutamias s. speciosus*) were common tho not as plentiful as the former. Microtus c. neglectus were rather scarce at this early season but may come out in abundance later.

In Small loose growing groves of White Fir I

noticed small, narrow, used, trails around the bases of some of the trees & close scrutiny revealed small patches of bloody light colored dung undoubtedly that of Glaucomyx. At this season of the year I do not expect to have them come to the ground as often as they would later as the cones & fir buds are still small & they can hold them in the tree tops to eat. In the summer ^{Phillips, Elkhorn Co. in Aug.} last year - 1919 - they would cut down the cones and coming to the ground would drag them to a point close to the tree trunk to eat, where, in case of the approach of an enemy they could easily escape up the tree.

My scyber traps were baited with raisins & dried apple and on June 16 I caught a fine ♂.

after this date & until my departure I caught an occasional glaucomyx averaging about 1 per week.

I found a fine draw near the summit where sign was thick but owing to its distance from camp I did not trap there.

About the end of July I started trapping steadily for minutes tho they were not thick I managed to catch about 30. amongst the lot were a number which I took to be hemardius but I think the greater part were neglectus.

The surprising thing of the trip was the apparent rarity of Peromyscus, usually these mammals are a great

Specimens Collected for myself at Bluff Lake, San Bernardino
Calif during my stay of June 6 to July 30th.

65	<i>Callospermophilus c. benardinus</i>	♀	270-80-41-15 (5 feet 35 mm.)	8 June 1920
66	"	♂	260-80-40-14	11 June 1920
67	<i>Eutamias s. speciosus</i>	♀	225-95-35-15 (4 feet 15 mm.)	11 June 1920
68	"	♂	200-80-30-15	11 June 1920
69	<i>Thomomys altivalis</i>	♂	290-90-38-5	18 June 1920
70	"	♀	235-65-32-5	18 June 1920
71	<i>Callospermophilus c. benardinus</i>	♀	275-90-40-15	18 June 1920
72	<i>Thomomys altivalis</i>	♀	235-67-30-5 (8 feet 8 mm.)	19 June 1920
73	<i>Callospermophilus c. benardinus</i>	♀	255-75-40-15	21 June 1920
74	<i>Thomomys altivalis</i>	♀	245-75-30-5	22 June 1920
75	"	♀	230-73-30-	24 June 1920
76	<i>Eutamias s. speciosus</i>	♀	210-85-32-14	28 June 1920
77	<i>Callospermophilus c. benardinus</i>	♂	265-85-40-15	28 June 1920
78	"	♂	255-80-42-15	30 June 1920
79	"	♀	272-85-40-15	1 July 1920
80	"	♂	265-85-40-15	3 July 1920
81	"	♀	260-85-40-15 Lactating	3 July 1920
82	<i>Eutamias s. speciosus</i>	♂	205-82-33-15	3 July 1920
83	"	♀	210-85-31-15	3 July 1920
84	"	♀	210-85-32-14 Lactating	21 July 1920
85	<i>Callospermophilus c. benardinus</i>	♀ juv.	175-60-33-10	23 July 1920
86	"	♀	277-85-41-15	25 July 1920
87	"	♂ juv.	180-55-33-12	25 July 1920
88	<i>Eutamias s. speciosus</i>	♀	212-85-32-15 Lactating	25 July 1920
89	"	♂	212-90-32-14	27 July 1920
90	<i>Callospermophilus c. benardinus</i>	♀ juv.	210-75-39-13	27 July 1920

as in 1915 I must have caught at least 100 of gambeli alone. My total of the genus at this camp was 3 & only one of which was of the gambeli group.

We packed up & left the place July 29th spending the night at Cushiebury Springs where I had hoped to spend a few days collecting but was not allowed to camp. This place would be an admirable place collecting station during the spring or fall migration as it is one of the few running springs where the migrants could find shelter on the desert's edge. It also looked very inviting for mammal work, as the nearby rocky barren hills looked promising for such things as *peromyscus c. stephensi* & *perognathus* of one or two species while the sandy benches covered with creosote brush would have an abundance of animal life.

Pushing on next morning in search of a suitable collecting site we finally landed at Victorville after looking over Box S. Springs which was deemed unfitted.

Camp was made under some willows near the large Victor Cement Plant and an abundance of fine water was to be had from a spring in the hillside.

We stayed here until Aug 9th getting a fine bunch of animals such as, *Perognathus l. bangsi*,

Dipodomys deserti, *Dipodomys mohavensis*, *Onychomys t. morangensis* and *Topotypes* of *Thomomys* & *Microtus c. mohavensis*.

Trapping was found to be best up the desert washes where the pocket mice, pocket rats & *Onychomys* were taken.

The gophers, as usual were most abundant about the alfalfa patches and ^{one} several taken from the Dawson Ranch.

I had some trouble with the *Microtus* but finally took about 10 from a tule patch a few hundred yards north of the cement plant & near the R.R.

Leaving Victorville on the 9th of Aug. I planned my next camp well up in Devil's Canyon, where the McGinness were camping. This region was well up in the canyon at 2500 ft altitude and in the upper Sonoran zone.

Collecting proved poor here & but very little was taken. I did succeed in collecting my first black-chinned sparrow on the hillside nearby.

We stayed here until Aug-23 & camped in the McGinnesses' back yard working out from there.

I found animal life abundant to the north of town near a range of hills called "Little Mountain" and took a fine bunch of the following

Perognathus l. brevicaudus - *Onychomys t. ramona*, *Dipodomys m. parvus* - *Dipodomys a. agilis* & *Peromyscus m. sonoriensis*

The *agilis* were by far the most abundant animal of the region and my series ran to about 75 specimens - The *perognathus l. brevicaudus* were only found in an unplowed field now overgrown with weeds.

During my spare hours after skinning I made the acquaintance of Judge Ed. Wall & Mr. R. B. Heron. The latter gentleman was the collector of the following types from San Bernardino and ^{mountainous} vicinity, *Thomomys l. pallescens* - *Onychomys t. ramona*, *Dipodomys m. parvus*, *glaucomys s. californicus* & *Perognathus alticola*. He informed me that the types of *Onychomys t. ramona* & *Dipodomys m. parvus* were taken at his ranch in Rock Canyon.

On September 1st I started collecting in Rock Canyon - driving to & fro Mr. Heron accompanied me on all the trips & was found to be a very fascinating companion as he had intimate acquaintance with Mr & Mrs. Thurber, Mr. Wilson, Mr. Stephens & several other naturalists of the 1880 to 1900 period & his recollections proved of wonderful interest.

I was successful in trapping all the specimens of the region that I desired & shall try at some future spring to make San Bernardino headquarters during another season as both Judge Wall & Mr. Heron

promised cooperation & I know that success
will surely bloom - They have such things
as Gray Vireo & Blackchinned Sparrows nesting
in this vicinity.

On the 12th of September I moved camp
to the Mountain about 5 miles east of Squaw
Lake, in quest of *Perognathus alticola* & *Glaucomys*
s. californicus.

I started trapping on a chaparral covered
hillside, catching one or two perognathus every
evening, that I believed to be *alticola*. My hopes
were blasted, however, when Judge Wall & Mr. Huxon
came up on the 19th. Mr. Huxon informed me
that *alticola* was one of the "Sillkys" so I
set out that evening to find suitable ground
I was told to trap in rocky country but this
in my experience was not right ^{for silks} so I chose
a grassy fire covered hill that had been
burned over by forest fire in 1917 and all the
trees were killed.

I found at Carpinteria, Santa Barbara Co. This
spring that fire didn't seem to kill off the perognathus
& if any thing after a couple of years invigorated
their numbers by causing a heavy growth of
seed bearing flora upon which they thrived.

This was found to be the case up here as
on Sept. 23 I took 13.

A few days of foggy chilly weather after that

date seemed to cause these animals to hibernate temporarily.

I was successful in catching but one *Glaucomys*. This place did not seem to be very favorable for them as the lack of Fir trees curtailed the food. I tramped over a great part of the surrounding forest, seeing but scant indications of their presence.

I chose Sept. 30th as a day of vacation and set a line of traps for myself, on the evening before - I caught 7 *Perognathus alticola* - 3 *perognathus c.* — & 2 *peromyscus m. sonoriensis*.

91	<i>Perognathus alticola</i>	♀	160-85-22-6	- 30 Sept. 1920
92	"	♀ ^{im}	140-72-21-6	"
93	"	♂	165-85-22-6	"
94	"	♂	170-90-23-6	"
95	"	♂	155-80-21-6	"
96	"	♀ ^{im}	145-75-21-5	"
97	"	♂	168-85-23-6	"
98	<i>Perognathus c.</i>	♀	220-132-27-10	"
99	"	♀	220-128-28-10	"
100	"	♂	215-125-28-10	"
101	<i>Peromyscus m. sonoriensis</i>	♂ ^{im}	130-60-18-14	"
102	"	♂	162-77-21-17	"

On the 5th of October I set my entire

line of mouse traps about 1/4 mile west of Squirrel Run. through the exact place where the type was collected.

On the 6th I was rewarded with 19 *Perognathus alticola* - 6 *Peromyscus m. sonoriensis*, 3 *Perognathus c. dispar* & 1 *Dipodomys u. agilis* - The latter was a most surprising thing as the locality is entirely transition.

I saved 3 of the *alticola*s & 3 of the *Peromyscus m. sonoriensis* which I skinned after dark on my own time.

103	<i>Perognathus alticola</i>	♂	167-88-23-6	Tootype	6 Oct- 1920
104	"	♀	155-80-21-6	"	"
105	"	♂	160-82-22-6	"	"
106	<i>Peromyscus m. sonoriensis</i>	♂	160-75-20-16		"
107	"	♂	160-71-20-15		"
108	"	♀	^{imm} 145-66-18-14		"

I saved the contents of the pockets from some of the specimens from Squirrel Run. & submitted them to C. Hart Merriam. The most interesting contents from a single individual were kept separate and I diagnosed them as follows - 109 seeds from the glass specimen #1. They were all trimmed to the average length of 10.5 m.m. - 23 of the kernels were hulled; probably the larger ones ^{could} not without waste be put in the pockets.

A small bunch of seeds saved from several specimens from Squirrel cove, were 44 unhulled 31 hulled & 6 seeds of the smaller grass ^{no. 3} which grew sparingly in the Squirrel cove district.

A bunch saved from the locality - 1 m. E. Strawberry Peak - San Berdo. Co., Calif. alt. 5750 - and taken from 8 specimens - about 75% of the seeds - in volume - were from the small grass #3 - The larger ones - no 1 - were trimmed in the usual manner - a grape seed? appeared in the bunch & the only explanation I can make for its presence is that some one had lunch in that vicinity - had grapes for lunch -

A rather crescent shaped seed was present in limited numbers - about 6 seeds in the bunch - a larger seed smooth & mottled was present & probably that of lupine.

Some of the grass around Squirrel cove - Specimens #1 - grew to the height of about 30 inches & the men would harvest it by cutting it down with their teeth.

- 5 Green-tailed Towhee H 63 - 67 - 68 - 80 - 81
- 6 Allen Hummer H 5 - 6 - 12 - 16 - 19 - 37
- 2 Audubon Warblers H 84 - 85
- 4 Junco H 74 - 88 - 123 - 124
- 1 Kinglet H 90
- 4 Wright Flycatcher H 75 - 76 - 77 - 78
- 3 Russet-backed Thrush H 39 - 42 - 43
- 3 B. H. Grosbeak H 26 - 30 - 40
- 2 Black-chinned Hummer H 32 - 33
- 1 Wood Pewee H 72
- 1 Chipping Sparrow H 66
- 1 Least Vireo H 44
- 1 Anthony Towhee H 28
- 1 Pileolated Warbler H 8
- 1 Bush-Tit H 9
- 1 S. H. Song Sparrow H 11
- 1 L. Vireo H 10

Birds - 1921

		Length		
1	J 9	Passerella	180	♀ 3-14-21
2	J 10	<u>Jacumba</u> Otocoris	165	♂ " - 15 - "
3	J 11	"	"	" - 11 - "
4	J 12	"	"	" - 11 - "
5	J 13	"	170	" - 11 - "
6	J 14	"	165	♀ " - 11 - "
7	J 15	"	140	" - 11 - "
8	J 16	"	155	" - 11 - "
9	J 17	"	165	" - 11 - "
10	J 23	Sialia	180	♂ " - 11 - "
11	J 26	Aphelocoma	270	♀ 3-16-21
12	J 27	"	285	" - 11 - "
13	J 28	Phainopepla	200	♂ 3-17-21
14	J 29	Otocoris	165	♂ " - 11 - "
15	J 30	"	170	" - 11 - "
16	J 31	"	155	♀ " - 11 - "
17	J 32	"	160	" - 11 - "
18	J 33	"	160	" - 11 - "
19	J 34	"	170	♂ " - 11 - "
20	J 43	Pipilo	200	♂ " - 11 - "
21	J 45	Junco	158	♂ 3-18-21
22	J 51	Cactus Woodpecker	195	♂ 3-20-21
23	J 52	Desert Sparrow	140	♂ " - 11 - "
24	J 53	"	135	♀ " - 11 - "
25	J 55	"	135	♂ " - 11 - "
26	J 60	"	135	♂ " - 11 - "

Laying

Lighted

Jacumba - San Diego Co. - Calif.

March

27	861	Otocoris	160	♀	3-21-21	Light.
28	862	"	160	♀	" - " - "	Medium
29	863	"	155	♀	" - " - "	Dark.
30	864	"	170	♂	" - " - "	
31	865	"	165	♂	" - " - "	
32	866	"	170	♂	" - " - "	
33	867	Brewer sparrow	135	♂	3-22-21	
34	868	Lawrence Goldfinch	115	♂	" - " - "	
35	869	Herod sparrow	140	♂	" - " - "	
36	870	Bullock's vireo	205	♂	" - " - "	
37	871	" "	200	♂	" - " - "	Fed
38	872	" "	200	♂	" - " - "	
39	873	Garter Woodpecker	190	♂	" - " - "	
40	874	Shrike	230	♂	" - " - "	
41	875	Gambel sparrow	165	♂	" - " - "	
42	876	Garter woodpecker	200	♂	3-23-22	
43	877	San Diego wren	130	♂	" - " - "	
44	878	Herod sparrow	140	♂	" - " - "	
45	879	" "	130	♀	" - " - "	
46	880	" "	140	♂	" - " - "	
47	881	Bullock's vireo	200	♂	" - " - "	
48	882	" "	195	♂	" - " - "	
49	883	Shrike	225	♂	" - " - "	

Jacumba - San Diego Co - Calif.

March 23-1924

50	J84	Guttered warbler	125	♂	3-23-21	
51	J85	Bullock's oriole	195	♂	3-24-21	Food.
52	J86	Lawrence goldfinch	119	♀	"-"-"	
53	J87	" "	120	♀	"-"-"	
54	J88	" "	120	♀	"-"-"	
55	J89	" "	115	♀	"-"-"	
56	J90	" "	118	♀	"-"-"	
57	J91	" "	124	♂	"-"-"	
58	J92	" "	125	♂	"-"-"	
59	J93	" "	120	♂	"-"-"	
60	J94	Say Phoebe	195	♂	"-"-"	
61	J95	Linnet	145	♀	"-"-"	
62	J96	San Diego Redwing	235	♂	March 25-21	
63	J97	" "	225	♂	"-"-"	
64	J98	Wedge-tailed Swallow	130	♂	March 26-21	
65	J99	" "	130	♂	"-"-"	
66	J100	" "	125	♀	"-"-"	
67	J101	" "	125	♂	"-"-"	
68	J102	" "	130	♂	"-"-"	
69	103	Bullock's oriole	200	♂	"-"-"	
70	104	Western warbling vireo	130	♂	March 27-21	
71	105	San Diego Wren	125	♀	"-"-"	Laying
72	106	Lawrence goldfinch	115	♀	"-"-"	

Jacumba - San Diego Co. - Calif.

73	107	Lawrence goldfinch	120	♂	March 29-21	
74	108	" "	120	♂	" - " - "	Ad.
75	109	Bullcock oriole	200	♂	" - " - "	
76	110	Pinyon Jay	275	♂	" - " - "	Breeding
77	111	" "	265	♀	" - " - "	Incubating
78	112	" "	265	♀	" - " - "	Incubating
79	113	" "	290	♂	" - " - "	Breeding
80	114	" "	280	♂	" - " - "	Breeding
81	115	" "	280	♂	" - " - "	Breeding
82	116	Black-throated Grey Warbler	130	♂	March 30-21	
83	117	Lawrence Goldfinch	120	♂	" - " - "	
84	118	" "	120	♂	" - " - "	
85	119	" "	115	♀	" - " - "	
86	120	Bullcock oriole	195	♂	March 30-21	
87	121	Gray vireo	140	♂	" - " - "	5 mi. East
88	122	Coast Bush-tit	105	♂	" - " - "	"
89	123	Heard Sparrow	140	♂	" - " - "	"
90	125	Bullcock Oriole	195	♂	April 1-21	
91	126	" "	200	♂	" - " - "	Ad.
92	127	" "	195	♂	" - " - "	Ad.
93	128	" "	195	♂	" - " - "	
94	129	" "	195	♀	" - " - "	
95	130	Arizona Wooded Oriole	210	♂	" - " - "	

3 miles East

Jacumba - April 4 - 1921

Snowing hard and ^{wind} blowing a gale.

Blow all night, the weather is very cold.

Jacumba - San Diego Co - Calif.

April 1 - 1921					
96	131	Arizona Hooded Oriole	205	♂	" - " - "
97	132	Green-backed Goldfinch	115	♀	" - " - "
98	133	Bullock Oriole	190	♂	April 2 - 1921
99	134	" "	195	♂	" - " - "
100	135	" "	190	♂	" - " - "
101	136	Grasshopper Sparrow	170	♂	" - " - "
102	137	Juncos	145	♀	" - " - "
103	138	Lutescent Warbler	125	♂	April 3 - 21
104	139	S. H. Towhee	210	♀	" - " - "
105	140	Bullock Oriole	190	♀	" - " - "
106	141	" "	190	♀	" - " - "
107	142	Pileolated Warbler	115	♀	April 4 - 1921
108	143	Warbler	120	♂	" - " - "
109	144	S. H. Towhee	215	♂	" - " - "
110	145	Lutescent Warbler	120	♂	April 5 - 21
111	146	S. H. Redwing	210	♂	" - " - "
112	147	P. A. Grosbeak	220	♂	" - " - "

Tr. ad.
Both wings, one leg
and skull badly fractured

2134
57

Brand - Imperial Co. - Calif. MD. 140.

113	153	Tolmie Warbler	195-	♂	May 7 - 1921
114	154	Sonora ^{yellow} "	125-	♂	" - " - "
115	157	Hammond Flycatcher	140	♂	May 8 - 1921
116	158	Wright "	140	♂	" - " - "
117	159	Purple Martin	195-	♀	" - " - "
118	160	Vamp Lingo	115-	♀	" - " - "
119	161	" "	"	♂	" - " - "
120	162	Trout Plover	200	♂	" - " - "
121	163	" " "	"	♀	" - " - "
122	164	Sonora ^{yellow} Warbler	125-	♂	" - " - "
123	165	Cactus Woodpecker	190	♂	" - " - "
124	166	Gilded Flicker	295	♀	" - " - "
125	167	Gila Woodpecker	215	♀	" - " - "
126	168	Cactus Wren	180	♀ ^{Jun}	May 9 - 1921
127	169	" "	215	♀	" - " - "
128	170	Cooper	210	♂	" - " - "
129	171	Blue Grosbeak	170	♂	" - " - "
130	172	" "	180	♂	" - " - "
131	173	Purple Martin	210	♂	" - " - "
132	174	Verdin	25	♂ ^{Jun}	" - " - "
133	175	Galapagos Warbler	115	♀	" - " - "
134	176	Pileolated Warbler	125	?	" - " - "
135	177	Long-Tailed Chat	185	♂	" - " - "

Brand - Imperial Co - Calif.

136	178	Verdin	105	♂	May 10 - 1921	
137	179	Townsend Warbler	125	♀	" - " - "	
138	180	Ground Dove	170	♂	" - " - "	
139	181	Warbling Vireo	135	♂	" - " - "	
140	182	Fly Catcher	135	♂	" - " - "	
141	183	Red-wing Blackbird	245	♂	" - " - "	White wings
142	183	" " " "	240	♂	" - " - "	
143	184	Yuma Horned Lark	180	♂	" - " - "	
144	189	Poor Will	190	♀	" - " - "	
145	190	Green Heron	455	♀	" - " - "	Egg in oviduct
146	191	^{Sonoran} Yellow Warbler	115	♂	May 11 - 1921	
147	192	Vermilion Flycatcher	145	♂	" - " - "	
148	193	English Sparrow	165	♀	" - " - "	
149	194	Bullock Oriole	195	♀	" - " - "	
150	195	Sonoran Yellow Warbler	120	♀	" - " - "	
151	196	Blue Grosbeak	175	♂	" - " - "	
152	197	Hertz Towhee	235	♂	" - " - "	
153	198	Blue Grosbeak	180	♂	" - " - "	Im.
154	199	Sonoran Yellow Warbler	120	♂	" - " - "	
155	200	Poor Will	190	♀	" - " - "	
156	201	Sonoran Yellow Warbler	120	♂	May 12 - 1921	
157	202	Alaskan " "	130	♂	" - " - "	
158	203	Bullock Oriole	200	♀	" - " - "	

Barro - Imperial Co - Calif.

159	204	Lazuli Bunting	145	♂	May 12-1921	
160	205	Horned Lark	160	♀	" - " - "	Laying
161	207	Cooper Tanager	205	♀	" - " - "	
162	208	" "	200	♂	" - " - "	Spotted
163	209	" "	200	♂	" - " - "	
164	210	Spight-hawk	215	♀	" - " - "	
165	211	Grack Wren	195	♂ imm	" - " - "	
166	212	P.H. Grosbeak	190	♀	" - " - "	
167	213	" "	195	♂	" - " - "	
168	215	Blackthroated Grey Warbler	110	♀	May 14-1921	
169	216	Ground dove	165	♀	" - " - "	Egg yellow
170	217	Green-backed Goldfinch	115	♂	" - " - "	
171	218	Warbling vireo	125	♀	" - " - "	
172	219	Blue Grosbeak	180	♂	" - " - "	
173	220	Cooper Tanager	205	♂	" - " - "	
174	221	Bullock Oriole	195	♂	" - " - "	
175	222	Blue Grosbeak	170	♀	May 15-1921	
176	223	" "	180	♂	" - " - "	
177	224	Sonora Yellow Warbler	120	♂	" - " - "	
178	225	Pileolated Warbler	120	♀	" - " - "	
179	226	Thyatcher	145	♂	" - " - "	
180	227	Sonora Red wing	220	♂	" - " - "	
181	228	Rail	350	♀	" - " - "	

Band - Imperial Co - Calif.

182	229	Rail	375	♂	May 15 - 1921	
183	230	Lazear Bunting	140	♀	May 16 - 1921	
184	231	Blue Grosbeak	170	♀	" - " - "	
185	232	" "	175	♀	" - " - "	
186	233	" "	180	♂	" - " - "	
187	234	" "	180	♂	" - " - "	
188	235	" "	180	♂	" - " - "	
189	236	" "	190	♂	" - " - "	
190	237	Ground Dove	170	♂	" - " - "	
191	238	" "	170	♂	" - " - "	
192	239	Whiteminged Dove	290	♀	" - " - "	
193	240	" "	290	♀	" - " - "	
194	241	Horned Lark	160	♀	" - " - "	Incubating
195	250	Cooper Tanager	205	♂	May 17 - 1921	Rose color.
196	251	" "	210	♀	" - " - "	
197	252	" "	205	♀	" - " - "	
198	253	Western Tanager	185	♀	" - " - "	
199	254	" "	185	♀	" - " - "	
200	255	Townsend Warbler	125	♀	" - " - "	
201	256	Pileolated Warbler	125	♀	" - " - "	
202	257	Bullock Oriole	190	♀	" - " - "	
203	261	Ash-throated Flycatcher	250	♂	" - " - "	
204	262	" "	250	♂	" - " - "	

Brand. Imperial Co. - Calif.

L. N. H. No.						
205	263	Blue Grosbeak	170	♀	May 18 - 1921	
206	264	Cooper Tanager	190	♂	" - " - "	Spotted
207	265	" "	200	♀	" - " - "	
208	266	" "	205	♀	" - " - "	
209	267	" "	210	♂	" - " - "	
210	271	Blue Grosbeak	170	♀	May 19 - 1921	
211	272	Lazula Bunting	135	♀	" - " - "	
212	273	Brewer Sparrow	135	♀	" - " - "	
213	274	Western Tanager	185	♂	" - " - "	
214	275	Night Hawk	230	♂	" - " - "	
215	276	Wood Pewee	165	♂	" - " - "	
216	277	" "	140	♂	May 20 - 1921	
217	278	Pileolated Warbler	120	♀	" - " - "	
218	279	Lazula Bunting	140	♀	" - " - "	
219	280	Gov Bird	195	♂	" - " - "	
220	281	Red Wing	220	♂	" - " - "	
221	282	" "	220	♂	" - " - "	
222	283	English Sparrow	140	♂ juv.	" - " - "	
223	284	" "	105	♀ juv.	" - " - "	
224	285	" "	110	♂ juv.	" - " - "	
225	286	Yellow Warbler	120	♀	May 21 - 1921	May to Austin
226	287	Sonoran Yellow Warbler	115	♀	" - " - "	
227	288	Pileolated Warbler	120	♂	" - " - "	

Burch - Imperial Co. - Calif.

228	289	Pileolated Warbler	115	♂	May 21-1921	
229	290	Plumbeous Gnatcatcher	100	♀	" - " - "	
230	291	Black-chinned Hummer	88	♂	" - " - "	
231	292	Cooper Tanager	200	♀	" - " - "	
232	293	" "	205	♀	" - " - "	
233	294	Saguaro Scrub Owl	210	♂	" - " - "	
234	295	Song-tailed Chat	185	♂	" - " - "	
235	296	Song Sparrow	140	♀	" - " - "	
236	297	Cor Bird	190	♂	" - " - "	
237	298	Black-headed Grosbeak	200	♂	" - " - "	
238	299	Cooper Tanager	202	♂	May 22-21	Pale pink.
239	300	" "	200	♂	" - " - "	Bright red + yellow.
240	301	Grackles Woodpecker	180	♀	May 23-1921	
241	302	Bullock Oriole	185	♀	" - " - "	
242	303	" "	193	♀	" - " - "	
243	304	" "	195	♂	" - " - "	
244	305	" "	190	♂	" - " - "	
245	306	White-winged Dove	290	♀	" - " - "	Incubating 7/3
246	307	" "	300	♂	" - " - "	
247	308	Gila Woodpecker	215	♀	" - " - "	
248	309	Night Hawk	210	♀	" - " - "	
249	310	Blue Grosbeak	170	♂	May 24-1921	
250	311	" "	170	♀	" - " - "	

Band - Imperial Co. - Calif.

251	312	Gov-Bird	190	♂	May 24-1921	
252	313	G. active Woodpecker	150	♂ juv.	" - " - "	
253	314	" "	140	♀ juv.	" - " - "	
254	315	Cooper Tanager	205	♂	" - " - "	
255	316	Ground Dove	176	♂	" - " - "	
256	317	Yellow-Throat	180	♂	May 25-1921	
257	318	Night Hawk	200	♂	" - " - "	
258	319	Gov-Bird	190	♂	May 26-1921	
259	320	Cooper Tanager	200	♀	May 27-1921	
260	321	" "	201	♂	" - " - "	Spotted
261	322	Blue Grosbeak	175	♂	" - " - "	Spotted
262	323	" "	175	♂	" - " - "	
263	324	" "	180	♂	" - " - "	
264	325	" "	175	♂	" - " - "	
265	326	Rail	270	♀	" - " - "	Laying
266	327	Vermilion Flycatcher	155	♂	May 28-1921	
267	328	Grainbel Quail	88	juv.	" - " - "	
268	329	Western Tanager	195	♂	" - " - "	
269	330	Bullock Oriole	185	♀	" - " - "	
270	331	Yellow Warbler	120	♂	May 29-1921	
271	332	Cooper Tanager	205	♂	" - " - "	Spotted
272	333	Blue Grosbeak	175	♂	" - " - "	Spotted
273	334	" "	170	♂	" - " - "	

Bands - Imperial Co. - Calif.

274	335	Verdin	100	♂ juv.	May 30 - 1921	
275	336	Long-Tailed Chats	190	♂	" - " - "	
276	337	Pileolated Warbler	115	♀	" - " - "	
277	338	Verdin	105	-♂	" - " - "	
278	339	Blue Grosbeaks	175	♀	" - " - "	
279	340	Pileolated Warbler	125	♂	May 31 - 1921	
280	341	Wood Pewee	145	♀	" - " - "	
x 281	342	Sagebrush Scrub Owl	220	♀	" - " - "	
282	343	Sonora Red-wing	190	♀	" - " - "	
283	344	Mead Towhee	225	♂	" - " - "	
284	345	Gilded Flicker	235	♂ juv.	June 1 - 1921	
285	346	" "	225	♀ juv.	" - " - "	
286	347	" "	220	♀ juv.	" - " - "	
287	348	Gov Bird	170	♀	June 2 - 1921	
288	349	" "	170	♀	" - " - "	
289	350	Blue Grosbeak	175	♂	" - " - "	Spotted
290	351	" "	180	♂	" - " - "	
291	352	" "	170	♂	" - " - "	
292	353	" "	170	♀	June 3 - 1921	
293	354	Bullock Quail	190	♀	" - " - "	
294	355	Horned Lark	175	♂	" - " - "	
295	356	White Winged Dove	300	♂	" - " - "	

$$\begin{array}{r} 357 \\ 344 \\ \hline 13 \end{array}$$

Pellier Ranch - 5 mi. N. Benton Station - Mono Co - Calif.

35

296 357 Nevada Redwing 230 ♂ June 25-1921

297 358 Black-billed magpie 395 ♀ June 30-21

298 359 " " 445 ♂ " " "

299 360 Spotted Towhee 310 ♂ July 11-21 ✓

300 361 Pacific Nighthawk 240 ♂ " - 14-21

300 Big Prospector meadow - Mono Co - Calif. Alt. 10300

301 362 American Sparrow Hawk 240 ♀ July 28-1921

302 363 " " 240 ♂ " - " - "

303 364 Rock Wren 135 ♂ " - " - "

304 365 Mountain Chickadee 130 ♂ July 28-1921

Poison Creek - White Mts. Mono Co - Calif. 9500 Alt.

305 366 White Mountain Vermilion Thrush 190 ♂ July 30-1921

306 367 " " " " 185 ♂ " - " - "

307 368 " " " " 180 ♀ " - " - "

308 369 White-breasted Woodpecker 220 ♀ " - " - " ✓

309 370 " " " " 235 ♂ " - " - " ✓

310 371 Western Gnatcatcher 135 ♀ " - " - "

311 372 Flycatcher 143 ♂ " - " - "

312 373 Big Prospector meadow - Alt. 10300
Chaparral Wren 315 ♀ " - " - "

313 374 " " 300 ♂ July 31-21

314 375 Inyo Slender-billed Nighthawk 140 ♂ " - " - "

315 376 " " " " 142 ♀ " - " - "

316 377 " " " " 145 ♂ " - " - "

Freak Bird

Big Prospecter Incubator - White Ints. Mono Co - Calif.

ALD 10300

LNH

317	378	Inyo Slender-billed Nuthatch	142	♂ imm	July 31 - 1921
318	379	Mountain Blue Bird	140	♂ imm	" - " - "
319	380	Inyo Slender-billed Nuthatch	145	♂ imm	Aug. 1 - 1921
320	381	" " "	150	♂ imm	" - " - "
321	382	Swain Creeper	115	♀ imm	" - " - "
322	383	" " "	110	♂	" - " - "
323	384	Inyo Slender-billed Nuthatch	140	♂ imm	Aug. 2 - 1921
324	385	Grass Vireo	130	♀ imm	" - " - "
325	386	Flycatcher	135	♀	" - " - "
326	387	Armed Grackle	160	♀	Aug. 3 - 1921
327	388	Juncos	157	♂ imm	" - " - "
328	389	"	140	♂ imm	" - " - "
329	390	Chloris Green	320	♂	" - " - "
330	391	"	310	♂	" - " - "
331	392	American Sparrow Hawk	285	♀ imm	" - " - "
332	393	Inyo Slender-billed Nuthatch	140	♀ imm	Aug. 4 - 1921
333	394	"	140	♂ imm	Aug. 5 - 1921
334	395	Large Hen	540	♀	Aug. 5 - 1921
		Small Fork Brooded Grackles - White Ints. Mono Co - Calif. - ALD 10500			
335	396	Inyo Slender-billed Nuthatch	145	♀ imm	Aug. 6 - 1921
336	397	" " "	145	♂ imm	" - " - "
337	398	" - " - " - "	145	♂ imm	" - " - "
338	399	" - " - " - "	140	♂ imm	" - " - "
		Small Fork Brooded Grackles - White Ints. Mono Co - Calif. - ALD 9500			
339	400	White Int. Vermilion Finch	175	♀ imm	Aug. 7 - 1921

27 158
17

Poison Creek. White Mts. Mono Co - Calif. Alt. 9500

339 400 White Mt. Summit Thrush 175- ♂ imm Aug. 7-1921

340 401 " " " 175- ♀ " - " - "

341 402 " " " 185- ♂ " - " - "

342 403 Anna Humming Bird 95- ♂ imm " - " - "

343 404 Sclerophorus 98 ? " - " - "

344 405 Warbling Vireo 120 ♀ juv " - " - "

406 406 Flycatcher 190 ♀ " - " - "
Big Prospecter Meadow - White Mts. Mono Co - Calif. Alt. 10300

345 407 Sparrow Hawk. 270 ♀ Aug. 7-1921

Poison Creek - White Mts. Mono Co - Calif. - Alt. 9500

346 408 White Mt. Summit Thrush 175- ♀ Aug. 7-1921

347 409 " " " 165- ♀ " - " - "

348 410 " " " 170 ♀ imm " - " - "

349 411 " " " 145- ♀ juv " - " - "

350 412 Western House Wren 115- ♂ imm " - " - "

351 413 Junco 95- ♀ juv " - " - "

352 414 White Mt. Summit Thrush 165- ♀ imm Aug. 10-1921

353 415 Song Sparrow-billed Nuthatch 145- ♂ " - " - "

354 416 " " " 145- ♀ " - " - "

355 417 Warbling Vireo 125- ♂ " - " - "

Big Prospecter Meadow - White Mts. Mono Co - Calif. Alt. 10300

356 418 Song Sparrow-billed Nuthatch 143 ♀ imm Aug. 11-1921

357 419 " " " 140 ♂ imm " - " - "

358 420 Sparrow Hawk 270 ♂ " - " - "

Big, Prosperous Meadows - White Mts. Mono Co. Calif.

Alt. 10300

359	421	Slender Billed Nuthatch	140	Dim	Aug 10. 1921
360	422	White breasted Woodpecker	225-	Dim	" " " " ✓
Large New Fibate. White Mts. Mono Co. Calif. Alt. 10500					
361	424	Large New	400	Dim	Aug. 13 - 1921
362	425-	Black-throated Gray Warbler	125-	Dim	

Big Prosperous Meadows - White Mts. Mono Co. Calif. 10300

362	425	Black-throated Gray Warbler	125-	Dim	Aug. 14 - 1921
363	426	Slender-billed Nuthatch	145-	Dim	" " " "
364	427	" " " "	150	Dim	" " " "
365	428	" " " "	150	Dim	" " " "
366	429	" " " "	148	♀	" " " "
367	430	" " " "	145	Dim	" " " "

Great Bell Mine. White Mts. Mono Co. - Calif. Alt. 11000

368	431	Slender-billed Nuthatch	148	♀	Aug. 17 - 1921
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Inv. Glend & Camp. White Mts. Mono Co. - Calif. Alt. 9200

369	437	White Mts. Fox Sparrow	177	♀ im	Aug 19 - 1921
370	438	" " " "	180	♂	" " " "
371	439	White Mts. Horned Thrush	185	♀ im	" " " "
372	440	" " " "	175	♀ im	" " " "
373	441	" " " "	180	♀ im	" " " "
374	442	" " " "	180	♀	" " " "
375	443	Tahoe Warbler	135	Dim	" " " "
376	444	" " " "	130	♀ im	" " " "

Inc. Cloud Camp. White Int. Mono Co. Calif.

NO. 9200

377 445 Green-tailed Towhee 200 ♀ imm Aug. 19-1921

378 446 Brewer Sparrow 140 ♂ imm " - " - "

379 447 Fly-catcher 130 ♂ juv " - " - "

380 449 Woodhouse Jay 300 ♀ Aug. 20-1921

381 450 " " 295 ♂ imm " - " - "

382 451 White Int. Hermit Thrush 180 ♀ imm " - " - "

383 452 Flycatcher 130 ♂ juv " - " - "

384 453 " 130 ♀ juv " - " - "

385 454 " 145 ♀ imm " - " - "

386 455 Chickadee 140 ♂ imm " - " - "

387 456 Robin 220 ♂ juv " - " - "

388 458 White-crowned Sparrow 175 ♀ imm Aug-21-1921

389 459 Brewer Sparrow 132 ♀ imm " - " - "

390 460 Parkman Wren 125 ♂ imm " - " - "

391 461 White-crowned Sparrow 175 ♀ imm " - " - "

392 462 White Int. Hermit Thrush 170 ♀ imm " - " - "

393 463 Dawson Gnat. White Int. Mono Co. Calif. - NO. 9500

393 464 White Int. Hermit Thrush 185 ♀ imm Aug. 22-1921

394 465 " " " 175 ♀ imm " - " - "

395 466 Tolmie Warbler 180 ♀ imm " - " - "

396 467 Hummingbird Selas 95 ? imm " - " - "

397 468 Alaskan Pileolated Warbler 120 ♀ imm " - " - "

398 481 White Int. Fly Sparrow 175 ♂ Aug. 23-27

Gottenwood Creek - White Mts. Mono Co. Calif. Alt. 9000

398	482	White Mts. Foxsparrow	175	♂	Aug. 23-1921
399	482	" " "	180	♀	" - " - "
400	483	Modoc Foxsparrow	190	♂ im	" - " - "
401	484	W. Mts. Hermit Thrush	180	♀ im	" - " - "
402	485	" - " - " - " - "	185	♂ im	" - " - "
403	486	" - " - " - " - "	180	♂ im	" - " - "
404	487	White crowned Sparrow	180	♂ im	" - " - "
405	488	" " " "	170	♀	" - " - "
406	489	" " " "	180	♂ im	" - " - "
407	490	Black-throated Grey ^{Warbler}	180	♂ im	" - " - "

Porin Creek - White Mts. Mono Co. - Calif. Alt. 9500

408	491	W. Mts. Hermit Thrush	180	♀ im	Aug. 24-1921
409	492	" " " "	180	♂ im	" - " - "
410	493	^{Gairdner} Purple Finch	165	♀	" - " - "

Inc Cloud Camp - White Mts. Mono Co. - Calif. Alt. 9200

411	495	Fox Sparrow	180	♂ im	Aug. 24-1921
412	496	Humming bird Selis.	95	♀	Aug. 25-1921
413	497	Flycatcher	150	♂ im	" - " - "

415	498	Purple Finch	165	♀ im	" - " - "
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Gottenwood Creek - White Mts. Mono Co. - Calif. Alt. 9000

416	499	W. Mts. Hermit Thrush	180	♂ im	" - " - "
417	500	" - " - " - " - "	180	♀ im	" - " - "
418	501	" - " - " - " - "	170	♂ im	" - " - "
419	502	^W Solmi Warbler	140	♂ im	" - " - "

Inc. Glend Camp - White Ints. Mono Co. Calif.

Alt. 10000

420	503	Imjo slender-billed Nuthatch	147	♀	Aug. 27-1921
421	504	White Int. Hermit Thrush	180	♀ imm	" - " - "
422	505	Flycatcher	145	♂ imm	" - " - "
423	506	"	140	♂ imm	" - " - "

Butterwood Creek. White Ints. Mono Co. Calif. Alt. 9000

424	509	White Int. Hermit Thrush	185	♂ imm	Aug. 29-21
425	510	White crowned Sparrow	165	♂ imm	" - " - "
426	511	Grassquit Vireo	140	♀ imm	" - " - "
427	512	Spotted Towhee	218	♂ imm	" - " - "

Inc. Glend Camp. White Ints. Mono Co. Calif. Alt. 9200

428	513	Black-headed Grosbeak	190	♂ imm	Aug. 30-1921
429	514	Robin	248	♀ imm	" - " - "
430	515	Chickadee	135	♂ imm	" - " - "
431	516	Flycatcher	140	♀	" - " - "

~~432~~ Summit C. Poison Creek. White Ints. Mono Co. Calif. Alt.

432	518	White-breasted Woodpecker	220	♀	Sep. 1-1921
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Wynman Creek. White Ints. Inyo Co. Calif. Alt. 8000

433	519	Water Ouzel	175	♀ imm	Sep. 3-1921
434	520	White Int. Hermit Thrush	175	♂ imm	" - " - "
435	521	" - " - " - "	180	♀ imm	" - " - "
436	522	Imjo slender-billed Nuthatch	145	♀ imm	" - " - "
437	523	White Int. Fork Sparrow	185	♂ imm	" - " - "
438	524	" - " - " - "	180	♀	" - " - "

Topotype

Topotype

Topotype

Topotype

Wyman Creek. White Mts. Inyo Co. Calif. Alt. 8000

439	525	Leard-colored Bush-tit	110	♂ imm	Sept. 3-1921	
440	526	" " " " "	111	♂ imm	" " " "	
441	527	" " " " "	110	♀ imm	" " " "	
442	528	Blackburn Pileolated Warbler	122	♂ imm	" " " "	
443	529	Flycatcher	152	♂ imm	" " " "	
444	530	"	155	♀ imm	" " " "	
445	531	Tolmie Warbler	135	♂	" " " "	
446	532	White-breasted Woodpecker	220	♀	" " " "	✓
447	533	Green-tailed Towhee	185	♂ imm	" " " "	
448	534	Blue-fronted Jay	300	♂ imm	" " " "	
449	540	White Mt. Hermit Thrush	180	♂ imm	Sept. 5-1921	Topotype.
450	547	Inyo Slender-billed Nuthatch	150	♂ imm	" " " "	
451	548	White Mt. Fox Sparrow	180	♀	" " " "	Topotype
452	555	White Breasted Woodpecker	235	♂	Sept. 6-1921	✓
453	556	Rock Wren	145	♂ imm	" " " "	
454	557	Western Kingbird	220	♂	Sept. 8-1921	
455	558	Inyo Slender-billed Nuthatch	155	♂	" " " "	
456	559	Mountain Bluebird	180	♂	" " " "	
457	560	Cassin Vireo	140	♂	Sept. 10-1921	
458	561	Blue-fronted Jay	310	♂	" " " "	
459	572	White Mt. Fox Sparrow	185	♂	Sept. 13-1921	Topotype
460	573	Green-tailed Towhee	195	♂ imm	" " " "	
461	574	Inyo Slender-billed Nuthatch	150	♂ imm	" " " "	

Wayman Creek. White Mts. Inyo Co. Calif. Alt. 7500

462	581	Penns Woodpecker	260	♀ imm	Sept. 14-1921	
463	582	Spotted Towhee	210	♂ imm	" - " - "	✓
		Alt. 8000				
464	586	Spotted Towhee	200	♀ imm	Sept. 15-1921	✓
		Alt. 7000				
465	587	Trop Sparrow	190	♂ imm	Sept. 15-1921	
		Alt. 6500				
466	588	Head-colored Bush-tit	115	♂ imm	Sept. 15-1921	
		Alt. 5800				
467	589	Trop. Sparrow	170	♀ imm	Sept. 16-1921	
468	590	Song Sparrow	160	♀ imm	" - " - "	
		Alt. 6000				
469	591	Spotted Towhee	215	♀	Sept. 17-1921	✓
470	592	Spent Wren	125	♂	" - " - "	
471	593	Flycatcher	120	♂ imm	" - " - "	
472	594	Canon Wren	140	♂	Sept. 18-1921	
473	595	Western Gnatcatcher	120	♂	" - " - "	
474	596	Head-colored Bush-tit	112	♂	" - " - "	
475	597	" - " - " - "	115	♂ imm	" - " - "	
476	598	" - " - " - "	112	♂ imm	" - " - "	
477	599	" - " - " - "	110	♂ imm	" - " - "	
478	600	" - " - " - "	115	♀	" - " - "	
479	601	" - " - " - "	115	♂ imm	" - " - "	

Wynman Creek. White Mtn. Inyo Co. Calif.

Alt. 6000

480	602	Leard-colored Bush-tit	112	♂	Sep. 18-1921	
481	603	" - " - " - " - "	115	♀	" - " - "	
482	604	" - " - " - " - "	110	♀	" - " - "	
483	605	" - " - " - " - "	110	♂	" - " - "	
484	606	" - " - " - " - "	100	♀	" - " - "	
485	607	" - " - " - " - "	110	♀	" - " - "	
486	608	" - " - " - " - "	112	♀	" - " - "	
487	609	" - " - " - " - "	115	♀	" - " - "	
488	610	" - " - " - " - "	115	♀	" - " - "	
489	611	" - " - " - " - "	100	♀	" - " - "	
490	612	Western House Wren.	120	♀	" - " - "	
491	613	Western Horned Owl	495	♂	" - " - "	
492	Northern end of Pepp Spring Valley. Inyo Co. Calif. Alt. 5400					
492	614	Spurred Horned Lark.	170	♂	Sep. 20-1921	
493	615	Nevada Sage Sparrow	150	♀	" - " - "	
494	616	" - " - " - " - "	155	♀	" - " - "	
495	617	" - " - " - " - "	150	♀	" - " - "	
496	618	" - " - " - " - "	155	♀	" - " - "	
497	619	" - " - " - " - "	150	♀	" - " - "	
498	620	Indov. Fox Sparrow	175	♀	Sep. 21-1921	Alt. 5800
499	621	White-crowned Sparrow	160	♀	" - " - "	
500	622	Canyon Wren	135	♀	Sep. 25-1921	Alt. 6000
501	623	Western House Wren	115	♀	" - " - "	

Wynuan Creek. White Mts. - Inyo Co. Calif. -

Alt. 6000

502	624	Warbling Vireo	130	♀ im	Sept. 23 - 1921	
503	625	White-throated Sparrow	165	♂ im	" - " - "	
504	626	White-breasted Woodpecker	240	♂	" - " - "	Alt. 5800
505	627	Spotted Towhee	215	♀	Sept. 24 - 1921	Alt. 5800
506	628	Gambel Sparrow	175	♂	" - " - "	Alt. 5800
507	629	Green-backed Goldfinch	110	♂	Sept. 25 - 1921	" - "
508	630	Western House Wren	125	♀ im	" - " - "	
509	631	Lutescent Warbler	120	♀ im	" - " - "	
510	632	"	115	♂ im	" - " - "	
511	633	Ruby-crowned Kinglet	105	♂	" - " - "	

Deep Spring Lake. Inyo Co. Calif. Alt. 5000

512	634	Indigo Song Sparrow	170	♂ im	Sept. 26 - 1921	
513	635	" - " - "	160	♀ im	" - " - "	
514	636	Western Yellow-throat	135	♀ im	" - " - "	
515	637	Deep Spring Valley - Inyo Co. Calif.				Alt 5100
515	637	Desert Horned Lark	170	♀	Sept. 26 - 1921	
516	638	Lutescent Warbler	125	♂ im	Sept. 28 - 1921	Alt 5000
517	639	Nevada Red Wing	210	♂ im	" - " - "	
518	640	"	170	♀ im	" - " - "	
519	641	Western Marsh Wren	140	♂ im	" - " - "	

Wynman Creek. White Mts. Inyo Co Calif.

Alt. 5800

520	642	Spotted Towhee	250	♂ im	Sep. 29-1921	✓
521	643	Heard Wren	140	♀ im	" - " - "	
522	644	Fox Sparrow	180	♂ im	" - " - "	
523	645	Green-colored Bush-tit	110	♂	Oct. 4-1921	
524	646	" " "	100	♀ im	" - " - "	

~~525-647 Grey Titmouse~~

Cedar Flat - White Mts. Inyo Co - Calif. Alt. 7300

525	647	Grey Titmouse	140	♂ im	Oct. 5-1921	
526	648	" "	145	♀	" - " - "	
527	649	" "	145	♂ im	" - " - "	
528	650	" "	147	♀ im	" - " - "	
529	651	" "	145	♀ im	" - " - "	
530	652	" "	145	♂ im	" - " - "	
531	653	" "	140	♀	" - " - "	
532	654	" "	145	♀	" - " - "	
533	655	Slender billed ^{with dark}	150	♀ im	" - " - "	
534	656	" - " - "	155	♂	" - " - "	
535	657	Woodhouse Jay	315	♂	" - " - "	
536	658	" "	270	♀ im	" - " - "	

Long Pine - Inyo Co. - Calif. Alt. 3800

537	664	Indio Song Sparrow	150	♀	Oct. 9-1921
538	665	" " "	160	♂	" - " - "
539	666	Desert Wren	125	♀ im	" - " - "
540	667	Indio Song Sparrow	150	♀ im	Oct. 11-1921
541	668	Western Marsh Wren	125	♀ im	" - " - "
542	669	Quail (Valley)	260	♂ im	Oct. 15-1921
543	670	" "	260	♂ im	" - " - "
544	671	" "	250	♀ im	" - " - "
545	672	Cedar Waxwing	160	♀ im	Oct. 17-1921
546	673	Desert Wren.	120	♀ im	Oct. 19-1921
547	674	Spotted Towhee	205	♀ im	" - " - "
548	675	" "	218	♂ im	Oct. 20-1921
549	676	" "	210	♂ im	" - " - "
550	677	" "	220	♂ im	Oct. 21-1921
551	678	" "	212	♂ im	" - " - "
552	679	Desert Wren	140	♂	Oct. 25-1921
553	⁶⁸⁰ 680	Quail	265	♀	" - " - "

Keeler - Inyo Co. - Calif. Alt. 3650

554	681	Nevada Sage Sparrow	155	♀	Oct. 26-1921
555	682	" " "	155	♀	" - " - "
556	683	" " "	150	♀	" - " - "
557	684	Nevada Redwing	235	♂ im	" - " - "
558	685	Linnit	155	♂	Oct. 28-1921

Keeler - Inyo Co. - Calif. Alt. 3650

559 686 Horned Lark .166 . ♀ . Oct. 29 - 1921 .

560 687 ^{Swamp}
~~Marsh~~ Sparrow .138 . ♀ . Nov. 1 - 1921 . State Record

Walker Pass - Freeman Canyon - Kern Co. Calif. Alt. 4600

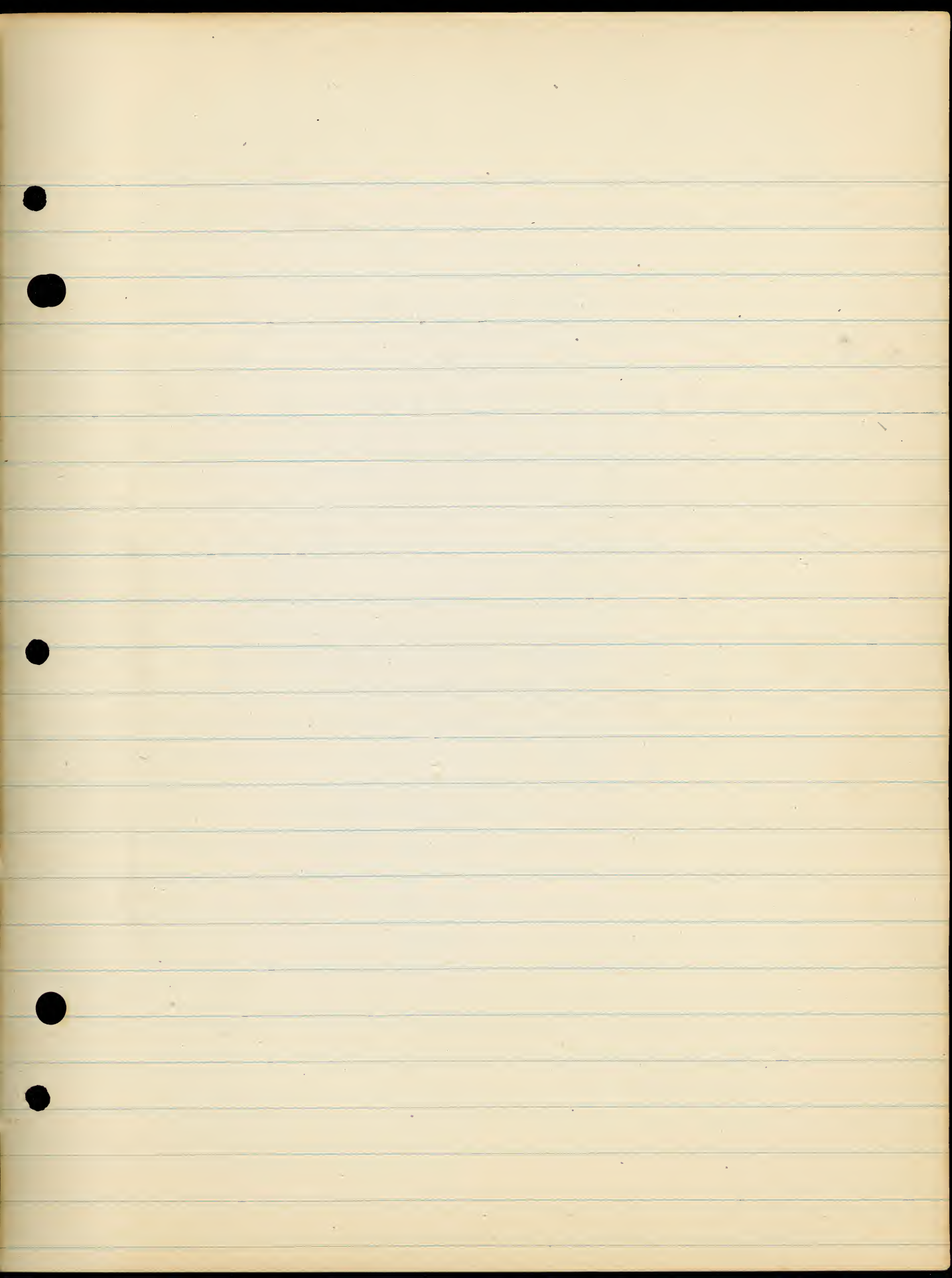
561 688 Northern Goshawk .205 . ♀ . Nov. 20 - 1921

Walker Basin - Kern Co. Calif.

562 689 Nuttall Woodpecker .200 . ♂ . Nov. 23 - 1921

563 690 Junco .140 . ♂ . . . - "

22 Horned Grackles.



Nidologist Complete
Sept 1893 to May 1897

4 1
5 2
6 3
7

P.C. = Poor Condition

Books

B.N.O.C. VIII

Auklets - Complete Vols - VI - XI - XII - XIII
XIV - XV - XVIII - XXII - XXIV - XXVI
XXVIII - XXIX - XXX - XXXI - XXXII - ~~XXXIII~~
~~XXXIV~~³⁵⁻³⁶ - XXXVII - XXXVIII - 39

~~4~~ AUKS. incomplete - (Vol II 1) (Vol III - 1) (Vol IV - 4)
(Vol V - 1) (Vol VII 1 - 2^{P.C.}) (Vol VIII 1^{P.C.} - 2) (Vol IX - 1^{P.C.})
(Vol XVI 2-3) (Vol XVII 1) (Vol XX 1) (Vol XXI 2)
(Vol XXII 1-2-4) (Vol XXV 1) (Vol XXXV 1 3-4-)

Complete Volumes lacking - I - IX - XIX - XXVII
XXXVI

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Condors - 1911 - (Jan Feb missing) 1920 Nov-Dec missing
Vol IV in paper should be Vol. VI -

Biological Survey Bulletins 1 - 2 - 4 - 5 - 7
8⁽²⁾ - 9 - 10 - 11 - 12 - (12 Rev. Ed) - 13 - 14 - 15⁽³⁾ - 16
17 - 19 - 20 - 21⁽²⁾ - 22 - 23⁽²⁾ - 24 - 26
27 - 29 - 30 - 31⁽³⁾ - 32⁽²⁾ - 33 - 34⁽³⁾ - 35
37⁽²⁾ - 38⁽²⁾ - 39 - 40 - 41⁽²⁾ - 42⁽²⁾ - 43 -
44⁽²⁾ - 45⁽²⁾

Nat. Mus. Reports - 1890 - 1892 - 1893 - 1897

Agri. Report 1888 - 1891 - 1892 - 1898

National Museum Bulletin - 50 ^{comp.} pts. 1-4-5-6-7-8 ^{indep.}

56 ^② - 57 - 62 ^③ - 73 - 86 - 98 ^②

107 ^② - 113

Proceeding B. S. Washington - Vols. 1 - 2 - 7-8 -

22 - 23 - 24 - 31 - 32 Complete -

Journal of Mammalogy - lack - Vol 1-5 [#]

Osprey - Vol 1 - (1-3-7-9) ^{Range} { Vol 1-5 [#]
Vol 2 - (1-2-3-6-7-9-10) { Vol 2-14-13 [#]

Osprey Mus. Series - Vol 1 - (2 [#]

Mediologist Vol 1 - Nos 3-7-8

Vol 2 Nos 2-4-6-7-8-9-10-11-12

Vol 3 Nos 1-3-6

Vol 4 " - 1

Observer - Vol 3 - Nos 3-4-5-6-7-9-10-11-12

Vol 4 " 7-

Vol 5 - 2

The Naturalist Vol 1 Nos - 1-3-12-

Vol 2 - " 1-

The Ornithologist & Oologist Vol 17 - Nos. 4-7-8-12

Zoe Vol 2 no 2

Hayden Survey Vol VI. [#]2

B. Bury

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5[#] 2 - 7[#] 1 - 8[#] 1 - 10[#] 1 - 11[#] 1 - 12[#] 2
13[#] 2 - 14[#] 1 - 16[#] 1 - 17[#] 2 - 18[#] 1
19[#] 1 - 20[#] 2 - 21[#] 1 - 22[#] 1 - 24[#] 1
26[#] 1 - 30[#] 1 - 31[#] 1 - 32[#] 1 - 33[#] 2
34[#] 2 - 35[#] 4 - 36[#] 3 - 37[#] 1 - 38[#] 2 - 39[#] 1
40[#] 2

The following 13 sheets are blank.

Famous For A.B. 20-1

(vol 34 is 1921) ^{Proceedings} of Biological Society of Wash
Vols ^(complete) 1 — 2 — 7 — 8

22 — 23 — 24 — 31 — 32

Auks - Complete Vols ^{B.N.O.C.} 1883 Vol 8 —
B.N.O.C. ^{incomplete} Vol 1 # no 3

Auks ^{incomplete} Vol 3 # 1 — Vol 4 # 4
Vol 5 # 1 Vol 8 # 1 — # 2
Vol 16 # — # 2 — # 3 Vol 17 — # 1
Vol 20 — # 1 Vol 21 — # 2
Vol 23 — # 1 — # 2 — # 4 Vol 25 — # 1 — # 2
Vol 35 — # 1 — # 3 — # 4

Books -

Bbs. IV & M.A. Vols. 1-8 & Nos. 1, 4, 5, 6, 7, 8

Faunas 1-III 2-III 3-11 4-11 5-11 7-11 8-11 10-11

T 11-11 12-11 13-11 14-11 15-11 16-11 17-11

18-11 19-11 20-11 21-11 22-11 23-11 24-11

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32-11 33-11 34-11 35-11 36-11 37-11 38-11

39-11 40-11 41-11 42-11 43-11 44-11

Trans. San D. So. Nat. Hist Vol. 1 - nos 1-2 (2) 3

Smithsonian Report - 1897 - 1892 - 1893

Sec. Agric. Report 1891-1898

Condor Vol 1-#5 - Vol 3-#4 Vol 4-#1 - 6th

Vol 6-#2

Complete Vols. Auk - Bull. N. O. C. 1883 Vol 8 - 1889 Vol 6 - 1894 Vol 11

1895 Vol 12 1896 Vol 13 - 1897 Vol 14 - 15 - 18th 22-24 - 1909 Vol 26

1911 Vol 28 1912 Vol 29 1913 Vol 30 1914 Vol 31 - 32-33-34 - 1920 Vol 37

Incomplete Vols - 1885 - Vol 2 #1 (Pages missing in printing) 1890 Vol 7-#1-2

1893 Vol 10-#1 (over correction) - 1898 Vol 15-#1

Adams

J. R. Schuyler & Co. Bloomsburg, Pa.
Rat traps # 1

Skull Cleaning—

Peroxide of Hydrogen - 1 part added to 2 parts
Pure Water (Rain or distilled)

Experiments —

Peromyscus # 55-56-57
were left in boiling
solution } 55 adult - 10 minutes
 { 56 imm 8 "
 { 57 juv 7 "
all were perfectly tanned.

Note on above cleaning—

D.R.D. says liquor runs Too much
Peroxide, as this causes chalky
appearance on skulls—

Equipment List

128. Gun - in case - shells loaded with #4, 6 & 8 shot
 Auxiliary - 500 loaded shells and
 Primers - powder - shot & wads
 Cleaning rods - Nitrosolvent & oil

Collectors Chest - Trays containing thin strips to
 pin mammals on. Lapboards & chairs
 Labels - Bird - Mammal & Skull
 Cotton - Absorbent & Button
 Tools - scapel - scissors - forceps
 (Small alcohol jar) Rule - needles^{cranel #8} - Threading^{#20}
 (Fish Basket or Hunting Sack) Cornmeal - Annic - Pins
 (small vial stricture) Whetstone - ~~Pen~~ - Pliers
 Tape - Alcohol - Test 78%

Wire - 1 spool #20 - will make 25 wood Rats
 " 22 " 30-40 - pocket Rats
 " 24 " 50-80 - Peromyscus
 " 26 " — Shrews

Books - Note & Field - includ. Pen, ink & Fillers
 Bird - check list - Flowers
 Mam - " - Trees & Bush
 Several late magazines to read
 & pack specimens - Topographical Maps.
 Small Dictionary - Correspondence papers - envelopes, Stamps.

Camera - Tripod - Filter - Plates - focusing cloth
 Exposure meter - Black linen thread

Equipment List (cont)

- Traps - 50 mice - 18 small ones in trap sack
4 #1 1/2 newhouse & one or two
larger ones depending on trip
6 #1 jump - suitable for trapping Rats
hawks - owls or large pocket Rats & wood
18 - Rat Traps including some flat
type & some schyless.
12 - Maccahee - Gopher traps &
spoon & small shovel for setting
2 - Mole traps if going in
mole country. gopher traps
can be used -

- Bait - Scent for large steel nets
Rat - cheese - Peasants - or Prunes
Mouse - equal parts of Oatmeal &
Mello Potatoes - corn seed - some
times bit of sugar - Canary Seed

- Egg Collecting - tree climbers - saw - hatchet
Rope - Egg Box - Blower -
Atomizer Bulb. Drills (assorted)
Strong cord on stick or reel - Pencil

- Medical - Aspirin - Quinine - possum. of Potash
Iodine - cathartic (cath. liniments or ^{Can} ^{cases})
Boric acid - Mentholatum - Bandages
Adhesive plaster. - Camphor - Jamaica Ginger
Whiskey ?? Citronella

Equipment list (cont)

Personal - Hair brush - comb -
Tooth brush - tooth past - dental Floss
Razor - Blades - Shaving ^{Brush} Cream - Mirror
Wash cloth - Talcum powder - Nail brush
2 Towels - Soap - 12 Handkerchiefs
Heavy shoes or boots - camp coat
6 pr. socks - 2 changes underwear
3 Top shirts - Sweater - extra Khaki pants
Traveling clothes suitable for wear
on train

Bedding - Sleeping bag - pump for air mattress
Pillow

Tents - regular 8 x 10 wall tent &
7 x 7 minor's tent - Tent Poles & pegs

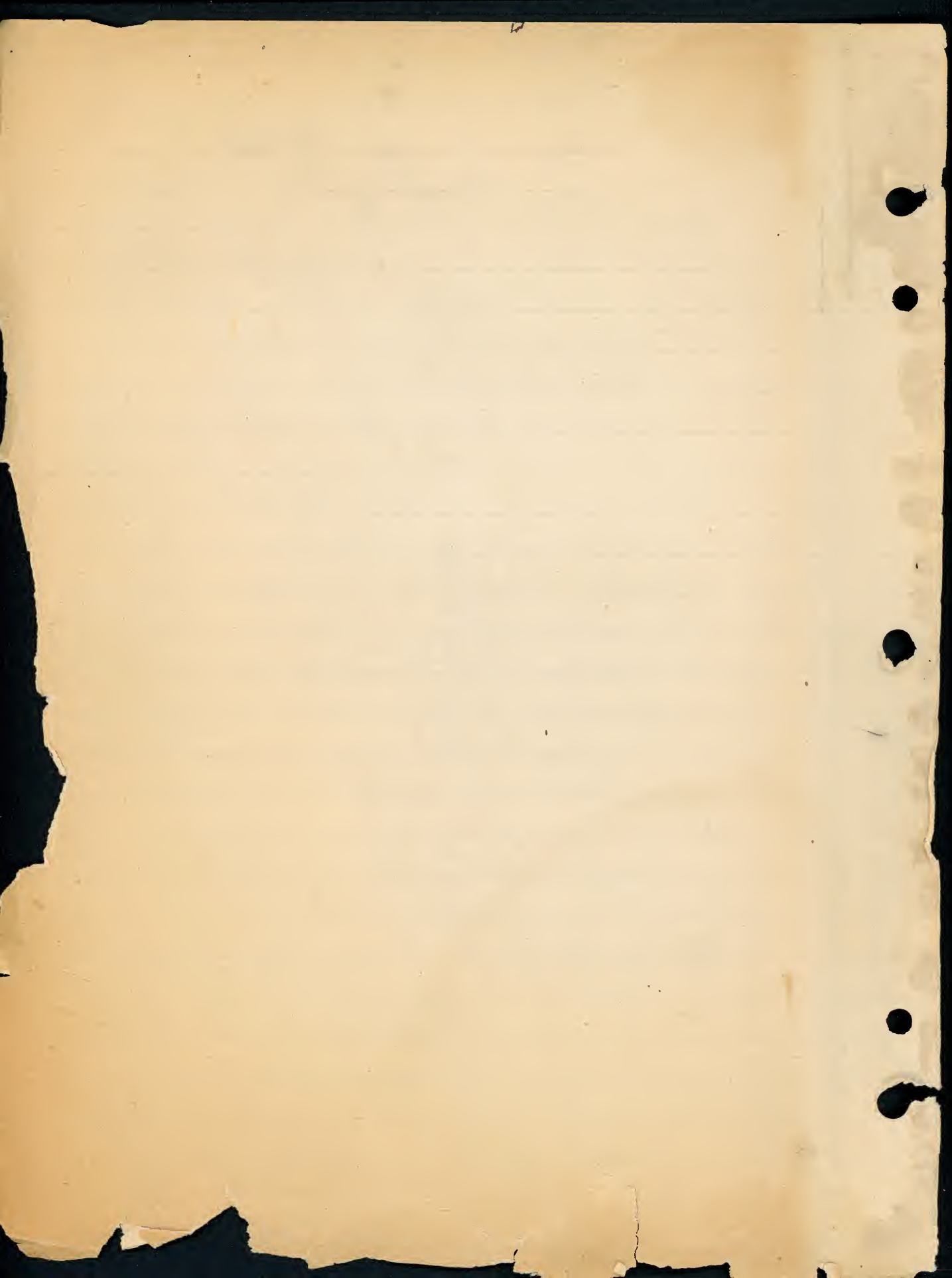
Cooking - Compact equipment for 2 or 4
persons - wash basin - Water bucket
Water bag if on desert - Fire grate or
camp stove - Foot bath tub.

General Utilities - Axe - Lantern - Flash-light
Hammer - nails - Canteen
Coil of 18 gauge wire Trout Rod & Flies.
Compass

Equipment list (cont)

Food - Sugar - Flour - Salt - paper - spices
Dried beef - Dried fruit - Postum
Tea - coffee - milk - Potatoes - Bacon
Eggs - Pancake Flour - Syrup - Soap
Toilet Paper - Beans - (lima or Pink)
Rice - Onions - macaroni - Oatmeal
Cornmeal - Baking Powder - Soda
Olive oil - Lard or Crisco - Dog Biscuits
Dutch cleanser - Canned goods

Automobile - Extra tire - Tubes - chains - 1 gal. oil
oil can - bit of copper wire - extra spark
plugs - assortment of vital parts - nuts &
Tools - jack - pump - tire iron
Road Maps.



867 F 57

in green

